



राजीव गाँधी पेट्रोलियम प्रौद्योगिकी संस्थान
Rajiv Gandhi Institute of Petroleum Technology

वार्षिक प्रतिवेदन
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राष्ट्रीय महत्व का एक संस्थान
An Institution of National Importance

विषय सूची

निदेशक का संदेश	1
अध्याय 1 – निदेशक का प्रतिवेदन	2–4
अध्याय 2 – शीर्ष समिति	5–6
अध्याय 3 – संकाय मामले	7–10
अध्याय 4 – प्रशासनिक विभाग	11–12
अध्याय 5 – रसायन अभियांत्रिकी एवं जैव रसायन अभियांत्रिकी विभाग	13–23
अध्याय 6 – पेट्रोलियम अभियांत्रिकी एवं भू-अभियांत्रिकी विभाग	24–32
अध्याय 7 – इलेक्ट्रॉनिक्स अभियांत्रिकी विभाग	33–37
अध्याय 8 – विज्ञान और मानविकी विभाग	38–42
अध्याय 9 – प्रबंध अध्ययन विभाग	43–46
अध्याय 10 – कंप्यूटर विज्ञान और अभियांत्रिकी विभाग	47–50
अध्याय 11 – गणितीय विज्ञान विभाग	51–54
अध्याय 12 – कम्प्यूटिंग एवं सूचना सेवा केन्द्र	55
अध्याय 13 – अकादमिक कार्यक्रम	56–63
अध्याय 14 – पुस्तकालय	64
अध्याय 15 – अधिष्ठाता-छात्र मामले	65–67
अध्याय 16 – प्रशिक्षण और नियोजन	68–69
अध्याय 17 – अंतर्राष्ट्रीय और पूर्व छात्र संबंध	70
अध्याय 18 – अनुसंधान एवं विकास कार्यालय	71–75
अध्याय 19 – असम ऊर्जा संस्थान, शिवसागर	76–90
अध्याय 20 – ऊर्जा संस्थान, बंगलुरु	91–102
अध्याय 21 – वर्ष 2022-23 का अंकेक्षित वित्तीय प्रतिवेदन	103–104
वित्तीय वर्ष 2022-23 का लेखा एवं तुलन पत्र (अनुसूची - 1)	105–162
एस.ए.आर. रिपोर्ट 2022–23 (अनुसूची - 2)	163–168



उद्देश्य

एक गतिशील अत्याधुनिक शिक्षण एवं कामकाजी वातावरण का निर्माण करना, जहां बौद्धिक विचारों को पोषित किया जाता है और नये विचार को सृजनात्मक बनाया जाता है, जिससे नेतृत्व एवं नवप्रवर्तक क्षमता से युक्त शोधकर्ता एवं स्नातकों का निर्माण होगा।



दृष्टिकोण

पेट्रोलियम प्रौद्योगिकी एवं ऊर्जा के विस्तृत क्षेत्र में ऐसे व्यक्तित्वों का निर्माणक शीर्ष बनना जो भविष्य के प्रौद्योगिकी एवं नवाचार नेताओं का निर्माण करें।



निदेशक का संदेश



प्रिय साथियो,
नमस्कार

मैं राजीव गांधी पेट्रोलियम प्रौद्योगिकी संस्थान की ओर से आपका स्वागत करता हूँ और हममें रुचि दिखाने के लिए आपको धन्यवाद देता हूँ।

छह प्रमुख भारतीय सार्वजनिक क्षेत्र की तेल कंपनियों और तेल उद्योग विकास बोर्ड द्वारा एक ऊर्जा डोमेन विशिष्ट संस्थान के रूप में सह-प्रचारित, इस संस्थान की स्थापना भारत सरकार द्वारा संसद के एक अधिनियम के माध्यम से की गई थी। इसे उच्च गुणवत्ता वाले अनुसंधान एवं विकास कार्य करने और प्रबंधन सहित पेट्रोलियम विज्ञान और प्रौद्योगिकी से संबंधित विभिन्न धाराओं में स्नातक, परास्नातक, डॉक्टरेट और स्नातकोत्तर डिप्लोमा डिग्री प्रदान करने के लिए सशक्त बनाने वाले राष्ट्रीय महत्व के संस्थान का दर्जा दिया गया है। आरजीआईपीटी वर्षों से अपने यहाँ प्रवेशरत जिम्मेदार नागरिकों और पेट्रोलियम और ऊर्जा से संबंधित क्षेत्रों के नेताओं में परिवर्तित, युवा पुरुषों और महिलाओं को शिक्षित कर रहा है। आरजीआईपीटी पेट्रोलियम इंजीनियरिंग और ऊर्जा से संबंधित क्षेत्रों में एक अग्रणी संस्थान के रूप में उभरा है। आरजीआईपीटी में हम एक

ऐसी शिक्षा प्रणाली बनाने की कोशिश कर रहे हैं जो शैक्षणिक, सामाजिक और व्यक्तिगत रूप से परिवर्तनकारी हो। “उत्कृष्टता और मूल्य” हमारे मार्गदर्शक सिद्धांत हैं जो संस्थान की हर गतिविधि में परिलक्षित होते हैं।

आरजीआईपीटी में हमारा उद्देश्य एक सुरक्षित, संरक्षित वातावरण प्रदान करना है जिसमें प्रत्येक छात्र लगातार बदलते, वैश्विक ऊर्जा समुदाय के निपुण, उत्पादक सदस्य बनने के लिए आवश्यक कौशल और ज्ञान प्राप्त करेगा। छात्रों को प्रौद्योगिकी समाधान और स्थिरता अनुसंधान की उन्नति में महत्वपूर्ण योगदान देने और तकनीकी संसाधनों के सतत विकास की दिशा में आगे बढ़ने में मदद करने के लिए निर्मित किया जा रहा है। संस्थान अगली पीढ़ी के नेताओं को तैयार कर रहा है जिन्हें प्रमुख रूप से “एनर्जी क्रूसेडर्स” कहा जाता है जो आने वाले वर्षों में इस मार्ग को आगे बढ़ाएंगे। हमारा संकाय व्यक्तियों का एक बहुत ही समर्पित समूह है जो हमारे छात्रों के लिए सर्वोत्तम संभव निर्देश प्रदान करने पर ध्यान केंद्रित करता रहता है। आरजीआईपीटी छात्रों को “ज्ञान अर्पण” के नाम से खेल, क्लब और सामुदायिक सेवा के माध्यम से कक्षा के बाहर शामिल होने के कई अवसर प्रदान करता है।

हम छात्रों को कक्षा के अंदर और बाहर दोनों जगह उनके “आराम क्षेत्र” से आगे बढ़ने में सक्षम बनाने का प्रयास करते हैं। हमारे निपुण संकाय, हमारे प्रतिभाशाली छात्रों और असाधारण पूर्व छात्रों के प्रयासों के माध्यम से, हम निरंतर विकास और नवाचार के अपने पथ पर तेजी से प्रगति करने में सक्षम हुए हैं। बी.टेक छात्रों को उद्योगों में 16 सप्ताह तक लंबी अवधि की इंटर्नशिप करने का अवसर प्रदान करने के लिए एनईपी 2020 के दिशानिर्देशों का पालन करते हुए संस्थान में इंटर्नशिप कार्यक्रम शुरू किया गया है। डिज़ाइन और इनोवेशन सेंटर व ई-सेल का प्रारम्भ वैश्विक अर्थव्यवस्था में अपने संगठनों को सशक्त बनाने के छात्रों को अग्रणी और उद्यमी बनाने के प्रति महत्वपूर्ण कदम है। साथ ही, संस्थान की जड़ें क्षेत्र और राष्ट्र में गहरी बनी हुई हैं। जिसकी एक अंतर्निहित प्राथमिकता हमारे छात्रों में प्रतिबद्धता की भावना पैदा करना और सामाजिक रूप से जिम्मेदार बनने हेतु प्रभावित करना है। इसके साथ ही संस्थान ने अमेठी क्षेत्र के आसपास के गांवों के लोगों की मदद के लिए सामुदायिक इंटर्नशिप कार्यक्रम शुरू किया है। अब तक आरजीआईपीटी और एचएएल कोरवा ने मिलकर जिले के 400 छात्रों को शैक्षणिक वर्ष 2022-2023 में अपनी ऑनलाइन पढ़ाई जारी रखने के लिए स्मार्टफोन प्रदान किया है।

आधुनिक समय में यह सुस्थापित तथ्य है कि कोई भी देश तब तक प्रभावी प्रगति नहीं करता जब तक उसकी महिलाओं को समान अवसर और समर्थन न मिले। एक शैक्षणिक और अनुसंधान संस्थान के रूप में “आरजीआईपीटी” ने भारत की बेटियों के प्रगतिशील सपनों को साकार करने के लिए “ऊर्जा शक्ति” कार्यक्रम के साथ एक कदम उठाया है। ऊर्जा शक्ति कार्यक्रम ऊर्जा क्षेत्र में महिलाओं की उपस्थिति को बढ़ावा देने के लिए आरजीआईपीटी द्वारा एक पहल है। नाम “ऊर्जा शक्ति”, स्वयं इस आयोजन के विचार के बारे में बताती है, “ऊर्जा” इस आयोजन की थीम - ऊर्जा का प्रतिनिधित्व करती है और “शक्ति” स्त्री शक्ति का प्रतिनिधित्व करती है। यह आयोजन महिला स्नातक इंजीनियरिंग छात्रों के लिए एक राष्ट्रीय स्तर की लेखन प्रतियोगिता है। आयोजन के विजेताओं को नकद पुरस्कार से पुरस्कृत किया जाता है। यह प्रतिभागियों के लिए क्षेत्र के विशेषज्ञों के सामने अपने नए और नवीन विचारों को साझा करने का एक अवसर है।

संस्थान में 208 विद्यार्थियों के लिए एक बालिका छात्रावास, 30 (2 शयन कक्ष अधिभोग) और 5 (1 शयनकक्ष अधिभोग) विवाहित विद्वानों के लिए आवास, निदेशक का आवास, अनुसंधान प्रयोगशालाएं और संकाय केबिन, नई कक्षाएं बनाने, शिक्षण के लिए मौजूदा उपलब्ध क्षेत्र का नवीनीकरण सहित परिसर का विस्तार किया जा रहा है। नए शैक्षणिक विभागों के निर्माण और नए शैक्षणिक यूजी/पीजी कार्यक्रमों की शुरुआत के कारण उत्पन्न आवश्यकता को पूरा करने के लिए 950 अधिभोग वाले लड़कों के छात्रावास, नए शैक्षणिक भवनों के निर्माण पर आगे काम चल रहा है। मजबूत बुनियादी ढांचे का विकास हमारी प्राथमिकता है, और संस्थान के पास एआई एंड एमएल में अत्याधुनिक केंद्र, सेंटर फॉर इनोवेशन एंड इनक्यूबेशन है।

संकाय एक शैक्षणिक संस्थान के स्तंभ हैं, संस्थान की वृद्धि और विकास उसके संकाय सदस्यों की अनुसंधान और शिक्षण दक्षता पर निर्भर करता है। आरजीआईपीटी को 07 बहुमुखी विभागों में फैले 63 संकाय सदस्यों का एक प्रतिभाशाली समूह प्राप्त है। संस्थान ने हाल ही में 9 नए प्रतिभाशाली उम्मीदवारों की भर्ती करके अपने संकाय समूह को बढ़ाया और मजबूत किया है।

उम्मीद है, विज्ञान और प्रौद्योगिकी के सभी प्रमुख क्षेत्रों में हमारे परिश्रम अकादमिक नवाचार, शीर्ष स्तरीय जर्नल प्रकाशनों, उद्धरणों और प्रौद्योगिकी विकास में उपयोगी परिणाम देंगे। आपके लिए आगामी वर्ष मंगलमय, स्वस्थ और फलदायी हो।

जय हिन्द!

निदेशक का प्रतिवेदन

मुझे शैक्षणिक वर्ष 2022-23 के लिए आरजीआईपीटी की वार्षिक रिपोर्ट प्रस्तुत करने का सौभाग्य मिला है। यह एक ऐसा वर्ष रहा है जहां केवल अपने उद्देश्यों पर ध्यान केंद्रित करके हम कुछ गंभीर चुनौतियों पर काबू पा सकते हैं। मुझे यह बताते हुए खुशी और गर्व महसूस हो रहा है कि आरजीआईपीटी अकादमिक, अनुसंधान और आउटरीच में तेजी से प्रगति कर रहा है। राजीव गांधी पेट्रोलियम प्रौद्योगिकी संस्थान (आरजीआईपीटी), जायस, भारत सरकार द्वारा स्थापित एक स्वायत्त संस्थान है। संस्थान को संसद के एक अधिनियम ("राजीव गांधी पेट्रोलियम प्रौद्योगिकी संस्थान अधिनियम 2007") के तहत भारतीय प्रौद्योगिकी संस्थान (आईआईटी) की तर्ज पर "राष्ट्रीय महत्व के संस्थान" का दर्जा दिया गया है। आरजीआईपीटी को तेल उद्योग विकास बोर्ड (ओआईडीबी) के सहयोग से छह प्रमुख तेल सार्वजनिक क्षेत्र इकाइयों (ओएनजीसी, आईओसीएल, ओआईएल, गेल, बीपीसीएल और एचपीसीएल) द्वारा एक ऊर्जा डोमेन विशिष्ट संस्थान के रूप में सह-प्रवर्तित किया गया है। संस्थान पेट्रोलियम और ऊर्जा प्रौद्योगिकी क्षेत्र के अग्रणी अंतरराष्ट्रीय विश्वविद्यालयों और विशेषज्ञता वाले संस्थानों से जुड़ा हुआ है। संस्थान का मुख्य उद्देश्य पेट्रोलियम और ऊर्जा क्षेत्र की बढ़ती आवश्यकताओं को पूरा करने के लिए सक्षम मानव संसाधनों को तैयार करने के लिए विश्व स्तरीय शिक्षा, प्रशिक्षण और अनुसंधान प्रदान करना है।

संस्थान के कार्यक्रमों का उद्देश्य पेट्रोलियम और ऊर्जा से संबंधित इंजीनियरिंग, विज्ञान और अंतःविषय विषयों के अग्रणी क्षेत्रों में ठोस सैद्धांतिक और प्रयोगात्मक पृष्ठभूमि के साथ जनशक्ति विकसित करना है। आरजीआईपीटी की स्थापना भारत के "राष्ट्रीय महत्व के संस्थान" के रूप में संसद के एक अधिनियम द्वारा पेट्रोलियम और प्राकृतिक गैस मंत्रालय, सरकार द्वारा की गई है। आरजीआईपीटी देश का पहला केंद्रीय वित्त पोषित तकनीकी संस्थान है जिसे पेट्रोलियम और ऊर्जा के क्षेत्र में स्थापित किया गया है।

मैं बताना चाहूंगा कि यह अत्याधुनिक नया परिसर भारत सरकार के 370 करोड़ रुपये से अधिक के बजटीय समर्थन से 47 एकड़ भूमि पर बनाया गया है। जिसमें 1100 छात्रों के रहने की सुविधा है। परिसर में 16 व्याख्यान कक्ष और 20 शिक्षण और अनुसंधान प्रयोगशालाओं के साथ दो शैक्षणिक भवन, परिसर में आवासीय परिसर, वाणिज्यिक परिसर, स्वास्थ्य केंद्र, अतिथि गृह, खेल सुविधाएं, छात्रावास और यह शानदार सभागार शामिल हैं। ऊर्जा बचाने के हमारे प्रयास में, एमएनआरई दिशानिर्देशों के अनुसार दोनों शैक्षणिक भवनों की छत पर सौर पैनल स्थापित किए गए हैं।

आरजीआईपीटी के शैक्षणिक प्रयासों को आगे बढ़ाने के लिए, शिवसागर, असम और बेंगलुरु में दो और केंद्र स्थापित किए गए। शिवसागर, असम केंद्र की स्थापना तेल और गैस से संबंधित क्षेत्रों में कौशल विकास प्रशिक्षण और डिप्लोमा और उन्नत डिप्लोमा स्तर की डिग्री प्रदान करने के लिए की

गई है, जबकि बेंगलुरु केंद्र प्रौद्योगिकी, परामर्श सेवाओं के व्यावसायीकरण, उद्यमशीलता और अनुवाद संबंधी अनुसंधान को बढ़ावा देने के लिए स्थापित किया गया है। वर्तमान में, असम केंद्र प्रत्येक विषय में 60 छात्रों के प्रवेश के साथ केमिकल इंजीनियरिंग, मैकेनिकल, इलेक्ट्रॉनिक्स और इंस्ट्रुमेंटेशन इंजीनियरिंग और फायर एंड सेफ्टी इंजीनियरिंग में तीन साल के डिप्लोमा कार्यक्रम की पेशकश कर रहा है। बेंगलुरु एनर्जी इंस्टीट्यूट वर्तमान में 7 विभिन्न धाराओं में एम.टेक की पेशकश कर रहा है।

कुछ पहल और उपलब्धियाँ

आरजीआईपीटी ने राष्ट्रीय शिक्षा नीति के अनुरूप पाठ्यक्रम में सुधार का प्रयास किया है। वर्तमान में, आरजीआईपीटी जायस 7 अलग-अलग पाठ्यक्रमों के तहत 10 स्नातक, 3-स्नातकोत्तर (पेट्रोलियम और रसायन में एम.टेक और एम.बी.ए.) और इंजीनियरिंग, विज्ञान, मानविकी और प्रबंधन के विभिन्न विषयों में डॉक्टरेट कार्यक्रमों की पेशकश कर रहा है। प्रायोजित एवं क्यू.आई.पी. के अंतर्गत काफी संख्या में अभ्यर्थियों का चयन एम.टेक. के लिए साक्षात्कार और/या लिखित परीक्षाओं के माध्यम से भी किया गया है।

आरजीआईपीटी सचेत रूप से नए स्नातकों से उद्योग की अपेक्षाओं को पूरा करने के प्रयास में है। हाइड्रोकार्बन और ऊर्जा क्षेत्रों के लिए आवश्यक दक्षताओं में क्षमता निर्माण को बढ़ावा देने के लिए एक अधिकार प्राप्त समिति वर्तमान में यूजी और पीजी कार्यक्रमों के लिए पाठ्यक्रम (उद्योग इनपुट के आधार पर) के संशोधन पर काम कर रही है। संस्थान ने नवाचार की आदत के रूप में त्वरित अनुसंधान को विकसित करने, उद्यमिता की संस्कृति को बढ़ावा देने और सहयोग के माध्यम से तालमेल बढ़ाने पर ध्यान केंद्रित किया है। आरजीआईपीटी ने आवासीय प्रशिक्षण, संयुक्त सहयोगी अनुसंधान, विकास और उत्कृष्टता को बढ़ावा देने और पार्टियों के बीच ज्ञान के आदान-प्रदान के लिए 11 उद्योगों, सीएसआईआर प्रयोगशालाओं, आईआईटी और अन्य शैक्षणिक संस्थानों के साथ समझौता ज्ञापन पर हस्ताक्षर किए हैं। हमने हाइड्रोकार्बन उद्योगों के साथ सहयोग बढ़ाने और सहकर्मी विशिष्ट संस्थानों के साथ अपने संबंधों को मजबूत करने के लिए व्यापक प्रयास शुरू किए हैं। आरजीआईपीटी पीएसयू की तेल रिफाइनरियों और विभिन्न अनुसंधान एवं विकास सुविधाओं के उद्योग दौरों के माध्यम से छात्रों के लिए नियमित अनुभव सुनिश्चित करता है। संस्थान वास्तविक समय में सीखने के लिए छात्रों के लिए समय-समय पर क्षेत्रीय यात्राओं की भी व्यवस्था करता है।

संस्थान की सीसीआईएस इकाई आधिकारिक वास्तुकला के माध्यम से शैक्षणिक भवनों, छात्रावासों, केंद्रीय पुस्तकालय, प्रशासनिक भवन, विवेकानंद व्याख्यान कक्ष, वाणिज्यिक परिसर, अतिथि छात्रावास,

स्वास्थ्य केंद्र और कर्मचारी निवासों सहित पूरे परिसर में निर्बाध गीगाबिट नेटवर्क कनेक्टिविटी प्रदान करती है। इंटरनेट का उपयोग 1 जीबीपीएस लैन और वाईफाई के नेशनल नॉलेज नेटवर्क (एनकेएन) से 1:1 की समर्पित लीज लाइन द्वारा प्रदान किया जाता है। संस्थान राष्ट्रीय ज्ञान नेटवर्क (एनकेएन) का एक हिस्सा है जिसके तहत सभी राष्ट्रीय स्तर के संस्थान हाई-स्पीड फाइबर नेटवर्क के माध्यम से जुड़े हुए हैं। सिस्को वाई-फाई नियंत्रक (सिस्को-5520) 1500 एक्सेस प्वाइंट की स्केलेबिलिटी के साथ 2x10 गीगाबिट ईथरनेट इंटरफेस या 2 गीगाबिट ईथरनेट इंटरफेस का विकल्प। इसमें 400 एक्सेस प्वाइंट को सपोर्ट करने के लिए इनबिल्ट लाइसेंस है। परिसर नवीनतम सिस्को इनडोर और आउटडोर एक्सेस पॉइंट से सुसज्जित है।

वैज्ञानिक और तकनीकी प्रगति का नेतृत्व करने के अलावा, राजीव गांधी पेट्रोलियम प्रौद्योगिकी संस्थान (आरजीआईपीटी), जायस, अमेठी गरीबी उन्मूलन की दिशा में महत्वपूर्ण योगदान देना चाहता है और जिले के लोगों के लिए स्थायी आजीविका लाना चाहता है। प्रोजेक्ट अमेठी की संकल्पना संस्थान के आसपास के क्षेत्रों में स्कूली बच्चों को शिक्षित करने के बारे में हमारे संस्थान के छात्र और संकाय सदस्यों के एक समूह ने पहल की शुरुआत करी। यह परियोजना शिक्षा और समावेशी विकास की दृष्टि से सौख्य और एकीकृत है। प्रोजेक्ट अमेठी एक समग्र प्रतिमान की रूपरेखा प्रदान करता है, जिसमें चार अलग-अलग कार्यक्रमों की कल्पना की गई है - स्कूली छात्रों की सीखने और क्षमताओं को बढ़ाने के लिए ज्ञान अर्पण (ज्ञान अर्पण) कार्यक्रम; अनुसंधान, नवाचार और इन्क्यूबेशन के लिए सहायता प्रणाली बनाने के लिए RISE कार्यक्रम; नमूना परीक्षण और परामर्श सेवाओं के लिए आवश्यक कार्यक्रम; और स्वास्थ्य, स्वच्छता, जल संरक्षण, प्लास्टिक प्रदूषण और अन्य पर सामाजिक जागरूकता के लिए दीक्षा (सौहार्द) कार्यक्रम।

प्रशिक्षण एवं नियोजन

2022-23 के दौरान, वर्ष 2022-23 के लिए यूजी-पीजी छात्रों के लिए नियोजन गतिविधियों में 30 कंपनियों की भागीदारी देखी गई, जिन्होंने परीक्षण और कैपस साक्षात्कार आयोजित करने के लिए परिसर का दौरा किया। इसके अलावा, कई कंपनियों ने ऑफ-कैपस भर्ती की। छात्रों के एक वर्ग ने उच्च अध्ययन में रुचि दिखाना जारी रखा। ऊर्जा, सेवा, परामर्श और विनिर्माण क्षेत्रों की कई कंपनियों ने स्नातक छात्रों को प्लेसमेंट की पेशकश के लिए परिसर का दौरा किया, जिसमें राष्ट्रीय तेल पीएसयू भी शामिल थे। प्लेसमेंट सीजन पूरे वर्ष अक्टूबर के अंतिम सप्ताह से शुरू होकर मई तक चलता है।

छात्र

आरजीआईपीटी में छात्र शिक्षाविदों पर ध्यान केंद्रित करते हैं और अपने ज्ञान और कौशल के भंडार के साथ वैश्विक स्तर पर छाप छोड़ने के लिए हमेशा तैयार रहते हैं, और यह हमारे पुरस्कारों और उपलब्धियों से स्पष्ट है। कुल 272 छात्रवृत्तियाँ प्रदान की गईं, छात्रों को उत्तर प्रदेश छात्रवृत्ति, ईआईएल छात्रवृत्ति, मुख्यमंत्री मेधावी विद्यार्थी छात्रवृत्ति आदि जैसी प्रतिष्ठित छात्रवृत्तियाँ प्रदान की गईं। कई छात्रों ने अपने शोध कार्य की प्रस्तुति के लिए विदेशों का दौरा किया। पीएचडी छात्र श्री हिमांशु केसरवानी ने मैड्रिड, स्पेन में आयोजित 83वें ईएजीई वार्षिक सम्मेलन एवं प्रदर्शनी में अपना

शोध कार्य प्रस्तुत किया। एम.टेक छात्र श्री कालिदास पी ने तुर्की में प्रथम विश्व ऊर्जा भंडारण सम्मेलन 2022 में अपना काम प्रस्तुत किया। एक अन्य एम.टेक छात्र, आलोक कुमार चौधरी को युवा मामले और खेल मंत्रालय से राष्ट्रीय युवा पुरस्कार से सम्मानित किया गया। कंप्यूटर विज्ञान विभाग के कई छात्र यूनेस्को इंडिया अफ्रीका हैकथॉन, सिंगापुर इंडिया हैकथॉन और हैकिस्टिका हैकथॉन में फाइनलिस्ट के रूप में उभरे। बी.टेक सीएसई छात्रों में से एक हांगकांग विश्वविद्यालय में 6 महीने की इंटरनशिप के लिए भी गया था। आईएसपीआरएस कांग्रेस, नीस, फ्रांस ने शोध पत्र प्रस्तुत करने के लिए छात्रों को अंतर्राष्ट्रीय यात्रा और पेपर प्रस्तुतीकरण अनुदान से सम्मानित किया। इलेक्ट्रॉनिक्स और इलेक्ट्रिकल इंजीनियरिंग विभाग के 4 छात्रों ने आईआईटी-बॉम्बे द्वारा ई-यंत्र पुरस्कार जीता। ई एंड ई विभाग के 6 छात्रों की एक टीम केरल के कांजीरापल्ली में आयोजित स्मार्ट इंडिया हैकथॉन में उपविजेता बनकर उभरी। केमिकल इंजीनियरिंग के चौथे वर्ष के छात्र, एचपीसीएल द्वारा आयोजित अखिल भारतीय नई पीढ़ी विचार प्रतियोगिता 2022 में यूजी श्रेणी में दूसरे स्थान पर रहे। सीईबीई विभाग के एक छात्र को दिसंबर 2022 में एआईसीएचई (न्यूयॉर्क, यूएसए) के अंतरराष्ट्रीय निकाय द्वारा डोनाल्ड एफ. ओथमर द्वितीय वर्ष का छात्र अकादमिक उत्कृष्टता पुरस्कार (2022-23) प्राप्त हुआ। सीईबीई के एक अन्य छात्र को प्रथम वर्ष मान्यता पुरस्कार (2022-23) प्राप्त हुआ। एआईसीएचई (न्यूयॉर्क, यूएसए) के अंतरराष्ट्रीय निकाय द्वारा, जनवरी 2023

जबकि हमारे छात्र अकादमिक उत्कृष्टता के लिए प्रयास करते हैं, वे समाज के प्रति भी संवेदनशील हैं और ऐसे काम करते हैं जो लोगों और समुदायों को प्रभावित करते हैं - वे ARPAN नामक एक सामाजिक पहल क्लब चलाते हैं।

आरजीआईपीटी पूर्व छात्र सेल ने 17 दिसंबर 2022 को आरजीआईपीटी छात्रों के लिए प्रशिक्षण और प्लेसमेंट के अवसरों से संबंधित विभिन्न बैचों के पूर्व छात्रों और विभागों के प्रमुखों, संकाय सदस्यों और माननीय निदेशक, आरजीआईपीटी के साथ एक ऑनलाइन बातचीत का आयोजन किया। विभाग स्तर पर, पूर्व छात्र के समायोजन और परामर्श समिति, पूर्व छात्रों को उनकी बहुमूल्य प्रतिक्रिया, सुझावों के लिए शामिल करने और वर्तमान छात्रों के लिए इंटरनशिप, परियोजनाओं और प्लेसमेंट के अवसरों पर चर्चा करने के लिए की समितियों का गठन किया गया है। हमारे पूर्व छात्रों की सफलता, रचनात्मकता और उनके पेशे में अद्वितीय नवाचार को मान्यता देने के लिए, पूर्व छात्र संघ ने "यंग एलुमनी अचीवमेंट अवार्ड" की शुरुआत की है। इस पुरस्कार के लिए नामांकन प्राप्त हो चुके हैं। इसके अलावा, अपने पूर्व छात्रों के साथ एक मजबूत नेटवर्क बनाने के लिए, पूर्व छात्र सेल ने अल्मा कनेक्ट पोर्टल पेश किया है जो एक पूर्व छात्र नेटवर्किंग प्लेटफॉर्म है। अब तक हमारे मंच से 500 पूर्व छात्र जुड़ चुके हैं।

संकाय

किसी भी शैक्षणिक संस्थान का विकास उसके संकाय सदस्यों के अनुसंधान और शिक्षण दक्षता पर निर्भर करता है। आरजीआईपीटी को 63 संकाय सदस्यों का प्रतिभाशाली समूह प्राप्त है। सभी आईआईटी, बीएचयू, मिनेसोटा, टेनेसी, पेंसिल्वेनिया विश्वविद्यालय, कैनसस स्टेट, मैक्स प्लैंक जर्मनी जैसे प्रमुख संस्थानों से पीएचडी हैं और कुछ के पास डॉक्टरेट के

बाद का अनुभव है। इसके अलावा, उद्योग जगत के कई विशेषज्ञ अतिथि व्याख्यान देने और छात्रों को प्रेरित करने के लिए संस्थान में आते हैं। संस्थान व्यावसायिक विकास के लिए संकाय सदस्यों को प्रशंसित संस्थानों में आदान-प्रदान दौरो को भी प्रोत्साहित करता है। हेड पीईजीई ने अगस्त, 2022 में एसईजी सम्मेलन के लिए यूएसए का दौरा किया। PEGE विभाग के एक संकाय ने फारस की खाड़ी विश्वविद्यालय, ईरान में भी व्याख्यान दिया है। ईआईबी के एक संकाय ने जुलाई-अगस्त, 2022 तक 1 महीने के लिए कोरिया गणराज्य का दौरा किया।

सम्मेलन और लघु अवधि पाठ्यक्रम

प्रबंधन अध्ययन विभाग द्वारा फरवरी 27-28, 2023 तक नोएडा में ऊर्जा संक्रमण के लिए मानव पूंजी विकास पर अंतर्राष्ट्रीय सम्मेलन आयोजित किया।

राजीव गांधी पेट्रोलियम प्रौद्योगिकी संस्थान (आरजीआईपीटी) ने 28 नवंबर, 2022 को एचएएल कोरवा के लिए डेटा निरीक्षण के लिए एआई-सक्षम गुणवत्ता उपकरण का आयोजन किया।

सीईबीई विभाग ने 16 से 20 जनवरी 2023 तक पेट्रोलियम रिफाइनरियों और पेट्रोकेमिकल उद्योगों में संस्कारण, 18 से 22 जुलाई 2022 और 7 से 11 जुलाई तक पेट्रोलियम रिफाइनिंग प्रौद्योगिकी पर एक पाठ्यक्रम भी आयोजित किया।

आरजीआईपीटी के ईआईबी केंद्र ने 5-6 दिसंबर, 2022 को ऊर्जा क्षेत्र में डिजिटलीकरण पर अंतर्राष्ट्रीय स्तर का सम्मेलन (डीईएस 2022) आयोजित किया। केंद्र ने 26 से 30 सितंबर, 2022 तक टाइफून एचआईएल का उपयोग करके ई-गतिशीलता में रीयल-टाइम सिमुलेशन और इसके अनुप्रयोगों पर प्रशिक्षण सह एफडीपी का भी आयोजन किया।

राजीव गांधी पेट्रोलियम प्रौद्योगिकी संस्थान (आरजीआईपीटी) में 14 सितंबर 2022 को हिंदी दिवस के रूप में मनाया गया। इस अवसर पर गैर शैक्षणिक कर्मचारियों के लिए एक कार्यशाला का आयोजन किया गया।

अनुसंधान गतिविधियाँ

आरजीआईपीटी में अनुसंधान शुरुआत से ही एक मुख्य गतिविधि रही है। संस्थान एम.टेक और पीएचडी छात्रों के साथ-साथ बी.टेक छात्रों को भी विभिन्न चल रही अनुसंधान गतिविधियों में सक्रिय रूप से शामिल करने की सुविधा प्रदान करता है, क्योंकि यहां अनुसंधान का माहौल हर स्तर पर बहुत गतिशील है। इसके परिणामस्वरूप, हमारे बी.टेक छात्रों ने जर्नल ऑफ फिजिकल केमिस्ट्री सी और केमिस्ट्री सेलेक्ट सहित पत्रिकाओं में अपने काम प्रकाशित किए हैं और एक भारतीय पेटेंट भी दायर किया है। संकाय सदस्यों ने पिछले तीन वर्षों में 40 पुस्तकें और 250 से अधिक पेपर प्रकाशित किए हैं। इस साल फरवरी से संकाय सदस्यों ने कुल 166 पेपर, 20 किताबें और 60 सम्मेलन कार्यवाही प्रकाशित की हैं, जो किसी भी विशिष्ट संस्थान के बराबर है। आरजीआईपीटी के शोध लेख अंतरराष्ट्रीय स्तर पर प्रतिष्ठित प्रकाशकों जैसे: अमेरिकन केमिकल सोसाइटी, रॉयल सोसाइटी ऑफ केमिस्ट्री, एल्सेवियर, विली इंटरसाइंस और स्प्रिंगर आदि द्वारा प्रकाशित किए गए हैं। हमारे संकाय सदस्यों को राष्ट्रीय और अंतरराष्ट्रीय स्तर पर व्याख्यान देने के लिए आमंत्रित

किया गया है। वर्तमान में, डीएसटी, डीएई, सीएसआईआर आदि से 29 बाह्य वित्त पोषित अनुसंधान परियोजनाएं चल रही हैं। इस वर्ष ही औद्योगिक परामर्श से 09 बाह्य वित्त पोषित अनुसंधान परियोजनाएं संकाय सदस्यों को प्राप्त हुई हैं। आरजीआईपीटी ने संकाय सदस्यों की अनुसंधान गतिविधियों का समर्थन करने के लिए इन-हाउस प्रोजेक्ट फंडिंग भी शुरू की है। इस योजना के तहत वर्तमान में 1.95 करोड़ रुपये की कुल लागत से 21 परियोजनाएं चल रही हैं।

आरजीआईपीटी ने हाल ही में अनुसंधान और शैक्षणिक सहयोग के लिए नॉर्थन (आर्कटिक) फेडरल यूनिवर्सिटी, यूनिवर्सिटी टेक्नोलोजी ब्रुनेई, सीएसआईआर-एनआईआईएसटी जोरहाट, आईआईटी कानपुर, आईआईटी बॉम्बे, आईआईटी रूड़की, आईआईटी गुवाहाटी, सीएसआईआर-आईआईसीटी और सीएसआईआर-सीआईएमएफआर, जीआईआरएमआई के साथ समझौता ज्ञापन पर हस्ताक्षर किए हैं। आरजीआईपीटी के निदेशक और संकाय सदस्यों ने उद्योग-शैक्षणिक सहयोग में तेजी लाने के लिए तेल और गैस सार्वजनिक उपक्रमों के विभिन्न अनुसंधान एवं विकास केंद्रों का दौरा किया और प्रस्तुतियां दीं।

अनुसंधान सुविधा और बुनियादी ढांचा

आरजीआईपीटी ने 20 से अधिक उच्च-स्तरीय उपकरणों को समायोजित करने के लिए केंद्रीय अनुसंधान सुविधा के लिए एक अलग प्रयोगशाला स्थल बनाया है। पिछले एक वर्ष से, विभिन्न प्रयोगशालाओं में जीसी-एफआईडी-टीसीडी-डीएचए, मल्टीचैनल पोर्टेंटियोस्टेट, कन्फोकल रमन स्पेक्ट्रोफोटोमीटर, स्पार्क प्लाज्मा सिंटरिंग जैसे कई विश्लेषणात्मक उपकरण स्थापित किए गए हैं। संस्थान ने बेंच स्केल कैटेलिटिक बेड रिएक्टर, इंटरफेशियल टेन्सियोमीटर, हीटिंग सुविधा के साथ माइक्रोस्कोप आदि सहित कई नए उपकरणों की खरीद भी शुरू कर दी है।

पुस्तकालय

आरजीआईपीटी केंद्रीय पुस्तकालय पुस्तकों के विशाल और लगातार बढ़ते संग्रह के साथ पूरी तरह से कम्प्यूटरीकृत है। इसे पेट्रोलियम विज्ञान एवं प्रौद्योगिकी के क्षेत्र में विश्व स्तरीय शैक्षणिक पुस्तकालय एवं सूचना केंद्र के रूप में विकसित किया जा रहा है। इमारत केंद्रीकृत वातानुकूलित है, जो अपने पाठकों के लिए आवश्यक सेवाओं से सुसज्जित है। वर्तमान में, पुस्तकालय में इंजीनियरिंग, विज्ञान, मानविकी और सामाजिक विज्ञान से संबंधित 13000 से अधिक पुस्तकें उपलब्ध हैं। वर्तमान में, हम पुस्तकालय में छात्रों के लिए पाठ्य पुस्तक बैंक बनाने की प्रक्रिया में हैं। पुस्तकालय में कुल 21 मुद्रित पत्रिकाएँ, 5 ई-जर्नल, 14 पत्रिकाएँ और 30,000 से अधिक पूर्ण पाठ ऑनलाइन पत्रिकाओं तक पहुँच उपलब्ध है। कैपस वाइड इंटरनेट कनेक्टिविटी छात्रों को इन्फ्रालाइन, ईबीएससीओ, एमराल्ड, अमेरिकन केमिकल सोसाइटी (एसीएस), वन पेट्रो, एसईजी, एएपीजी आदि जैसे ऑनलाइन लाइब्रेरी संसाधनों तक पहुँच प्रदान करती है। लाइब्रेरी सभी कार्य दिवसों पर सुबह 10 बजे से रात्रि 12 बजे तक खुली रहती है। परीक्षाओं के दौरान पुस्तकालय चौबीसों घंटे खुला रहता है।

आपको बहुत बहुत धन्यवाद। जय हिन्द!

प्रोफेसर ए. एस. के. सिन्हा

शीर्ष समिति

सामान्य परिषद

अध्यक्ष

सचिव, पेट्रोलियम और प्राकृतिक गैस मंत्रालय, भारत सरकार

सदस्य

- अध्यक्ष, आईओसीएल
- सीएमडी, बीपीसीएल
- सीएमडी, एचपीसीएल
- सीएमडी, ओएनजीसी लिमिटेड
- सीएमडी, गेल (इंडिया) लिमिटेड
- सीएमडी, ओआईएल
- सीईओ, आरआईएल

- सीईओ, केयर्न एनर्जी
- सीईओ, शेल इंडिया
- सीईओ, एस्सार समूह
- महानिदेशक, डीजीएच
- सलाहकार (ऊर्जा), नीति आयोग
- कार्यकारी निदेशक, ओआईएसडी
- निदेशक, आईआईटी कानपुर
- कुलपति, आईसीटी मुंबई
- सचिव, ओआईडीबी
- अध्यक्ष, आरजीआईपीटी
- निदेशक, आरजीआईपीटी

संचालक मंडल

डॉ. एस. शामसुंदर
अध्यक्ष - संचालक, आरजीआईपीटी

प्रो. ए.एस.के. सिन्हा
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डॉ. अलका मिश्रा
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IIT BHU और कार्यकारी निदेशक TIFAC

डॉ. बिस्वजीत रॉय
निदेशक (एचआर), ऑयल इंडिया लिमिटेड

डॉ. वी.के. सारस्वत
सदस्य, नीति आयोग

आचार्य योगेश एम. जोशी
आचार्य, आई आई टी कानपुर

श्री प्रसाद पणिकर
निदेशक एवं प्रमुख, नायरा एनर्जी लिमिटेड

आचार्य चंचल कुंडू
आचार्य, आरजीआईपीटी

आचार्य योगेश एम. जोशी
आचार्य, आरजीआईपीटी

सचिव

श्री जितेंद्र प्रसाद
कुलसचिव, आरजीआईपीटी

वित्त समिति

प्रो. ए.एस.के. सिन्हा
निदेशक, आरजीआईपीटी

डॉ. एस. शामसुंदर
अध्यक्ष - संचालक मण्डल, आरजीआईपीटी

श्री बिस्वजीत रॉय
निदेशक (एचआर), ऑयल इंडिया लिमिटेड

श्री एस. एस. यादव
पूर्व निदेशक- (मानव संसाधन)-ओ आई एल

आचार्य योगेश एम. जोशी
आचार्य, आई आई टी कानपुर

सचिव

श्री जितेंद्र प्रसाद
कुलसचिव



राजीव गाँधी पेट्रोलियम प्रौद्योगिकी संस्थान

विद्या परिषद्

अध्यक्ष

प्रो. ए.एस.के. सिन्हा
निदेशक, आरजीआईपीटी

सदस्य

श्री एस.के. बोस
कार्यकारी निदेशक-एचआर, आईओसीएल

श्री निखिल कटियार
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डॉ नरेंद्र कुमार
कार्यकारी निदेशक, टॉरेन्ट गैस

आचार्य उमाप्रसन्ना ओझा
अधिष्ठाता- शैक्षणिक मामलें

आचार्य एम.एस. बालाथनिगईमणि
अधिष्ठाता- अनुसंधान एवं विकास

आचार्य आलोक कुमार सिंह
अधिष्ठाता- गैर-शैक्षणिक मामलें

आचार्य संजय कुमार कर
अधिष्ठाता- संकाय मामलें

डॉ. सौरभ मिश्रा
अधिष्ठाता- छात्र मामलें

डॉ. कविता श्रीवास्तव
अधिष्ठाता- योजना, संसाधन और पूर्व छात्र

आचार्य ए के चौबे
विभागाध्यक्ष, विज्ञान और मानविकी

आचार्य चंचल कुंडू
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आचार्य सतीश कु. सिन्हा
विभागाध्यक्ष, पेट्रोलियम इंजीनियरिंग और
जियोइंजीनियरिंग

डॉ. मिलन कुमार
विभागाध्यक्ष, केमिकल इंजीनियरिंग और
बायोकेमिकल इंजीनियरिंग

डॉ. जया श्रीवास्तव
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डॉ. सुषम बिस्वास
विभागाध्यक्ष, कंप्यूटर विज्ञान और इंजीनियरिंग

डॉ. यू.डी. द्विवेदी
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आचार्य अमित रंजन
केमिकल इंजीनियरिंग और बायोकेमिकल
इंजीनियरिंग

आचार्य अतुल शर्मा
विज्ञान और मानविकी

डॉ अर्जुन देव
प्रभारी, ऊर्जा संस्थान, बंगलुरु

श्री चिन्मय जीत शर्मा
प्रभारी, असम ऊर्जा संस्थान

डॉ राकेश कुमार
अध्यक्ष-सीनेट पुस्तकालय समिति

डॉ. देबाशीष पांडा
सह - आचार्य

डॉ. तुषार शर्मा
सह - आचार्य

डॉ. मनोज कुमार राजपूत
सह - आचार्य

डॉ. देबाशीष जेना
सहायक प्राध्यापक

डॉ शिवांशु श्रीवास्तव
सहायक प्राध्यापक

डॉ. दया सागर गुप्ता
सहायक प्राध्यापक

डॉ. भास्कर ज्योति मेधी
सहायक प्राध्यापक

डॉ. रूपा मंजूनाथ
सहायक प्राध्यापक

सचिव

श्री जितेंद्र प्रसाद
कुलसचिव



राजीव गाँधी पेट्रोलियम प्रौद्योगिकी संस्थान

संकाय मामले

संक्षिप्त परिचय

संकाय सदस्यों और अन्य शैक्षणिक कर्मचारियों की भर्ती और स्थापना से संबंधित सभी मामले संकाय मामलों के कार्यालय के दायरे में आते हैं। छुट्टी की मंजूरी, विदेश यात्रा, संचयी व्यावसायिक विकास भत्ता (सीपीडीए) और एलटीसी, सेवा प्रमाणपत्र जारी करना, विभिन्न उद्देश्यों के लिए 'अनापत्ति प्रमाणपत्र' (एनओसी) जारी करना संकाय मामलों के कार्यालय द्वारा जारी किया जाता है।

संकाय की स्थिति

पद पर संकाय सदस्य

	जायस	ऊर्जा संस्थान बंगलुरु	असम ऊर्जा संस्थान
संस्थान के संकाय सदस्य	63	8	13

	जायस	ऊर्जा संस्थान बंगलुरु	असम ऊर्जा संस्थान
डीएसटी इंस्पायर फैकल्टी	1	1	0
विजिटिंग फैकल्टी	4	0	0

2022-23 के दौरान संकाय सदस्यों की नियुक्ति

	जायस	ऊर्जा संस्थान बंगलुरु	असम ऊर्जा संस्थान
आचार्य	9	0	
सह आचार्य	7	0	
सहायक आचार्य	8	1	
अतिथि संकाय	1	0	

1 अप्रैल 2022-31 मार्च 2023 के दौरान नियुक्त संकाय की सूची

क्र० सं०	संकाय/कर्मचारी का नाम	पदनाम	विभाग/अनुभाग	नियुक्ति की तिथि
1	डॉ. मोहम्मद इरफ़ान	सह आचार्य	प्रबंधन अध्ययन	03.08.2022
2	डॉ. श्रवण कुमार त्रिवेदी	सहायक आचार्य	प्रबंधन अध्ययन	01.07.2022
3	डॉ. राहुल कुमार	सहायक आचार्य	कंप्यूटर विज्ञान एवं अभियांत्रिकी	09.05.2022
4	डॉ. कालका दुबे	सहायक आचार्य	कंप्यूटर विज्ञान एवं अभियांत्रिकी	12.05.2022
5	डॉ. पल्लबी सैकिया	सहायक आचार्य	कंप्यूटर विज्ञान एवं अभियांत्रिकी	28.07.2022
6	डॉ. आकाश यादव	सहायक आचार्य	कंप्यूटर विज्ञान एवं अभियांत्रिकी	30.03.2023
7	डॉ. अंकुर पांडे	सहायक आचार्य	इलेक्ट्रिकल्स और इलेक्ट्रॉनिक्स अभियांत्रिकी	29.09.2022
8	डॉ. विजय कुमार सिंह	सहायक आचार्य	इलेक्ट्रिकल्स और इलेक्ट्रॉनिक्स अभियांत्रिकी	03.10.2022
9	डॉ. सप्तर्षि घोष	सहायक आचार्य	इलेक्ट्रिकल्स और इलेक्ट्रॉनिक्स अभियांत्रिकी	15.12.2022
10	श्री चंद्र कांत तिवारी	अतिथि संकाय	अतिथि संकाय असम ऊर्जा संस्थान	29.03.2023
11	डॉ. चंद्रकांत	सहायक आचार्य	ऊर्जा संस्थान बंगलुरु	06.10.2022

1 अप्रैल 2022-31 मार्च 2023 की अवधि के दौरान शामिल हुए आंतरिक संकाय सदस्यों की सूची

क्र० सं०	संकाय/कर्मचारी का नाम	पदनाम	विभाग/अनुभाग	नियुक्ति की तिथि
1	प्रो. ए.के. सिंह	आचार्य	पेट्रोलियम अभियांत्रिकी और जियोइंजीनियरिंग	26.09.2022
2	प्रो एस के सिन्हा	आचार्य	पेट्रोलियम अभियांत्रिकी और जियोइंजीनियरिंग	26.09.2022
3	प्रो. एम. एस. बालाथानिगईमनी	आचार्य	रसायन अभियांत्रिकी एवं जैव रसायन अभियांत्रिकी	26.09.2022
4	प्रो अमित रंजन	आचार्य	रसायन अभियांत्रिकी एवं जैव रसायन अभियांत्रिकी	26.09.2022
5	प्रो उमाप्रसना ओझा	आचार्य	विज्ञान एवं मानविकी	26.09.2022
6	प्रो. ए.के. चौबे	आचार्य	विज्ञान एवं मानविकी	26.09.2022
7	प्रो. अतुल शर्मा	आचार्य	विज्ञान एवं मानविकी	26.09.2022
8	प्रो. संजय कुमार कर	आचार्य	मैनेजमेंट स्टडीज	26.09.2022
9	प्रोफेसर चंचल कुंडू	आचार्य	गणितीय विज्ञान	26.09.2022
10	डॉ तुषार शर्मा	सह - प्राध्यापक	पेट्रोलियम अभियांत्रिकी और जियोइंजीनियरिंग	20.04.2022
11	डॉ . शिवांजलि शर्मा	सह - प्राध्यापक	पेट्रोलिय अभियांत्रिकी और जियोइंजीनियरिंग	26.09.2022
12	डॉ मिलन कुमार	सह - प्राध्यापक	रसायन अभियांत्रिकी एवं जैव रसायन अभियांत्रिकी	26.09.2022
14	डॉ. रोहित बंसल	सह - प्राध्यापक	प्रबंधन अध्ययन	26.09.2022
15	डॉ . सुषम विश्वास	सह - प्राध्यापक	कंप्यूटर विज्ञान एवं अभियांत्रिकी	20.04.2022
16	डॉ. एम के राजपूत	सह - प्राध्यापक	गणितीय विज्ञान	06.10.2022

वार्षिक प्रतिवेदन 2022-2023

1 अप्रैल 2022-31 मार्च 2023 के दौरान इस्तीफा देने वाले/कार्यमुक्त किए गए संकाय सदस्य

क्रम संख्या	संकाय/कर्मचारी का नाम	पदनाम	विभाग/अनुभाग	कार्यमुक्ति की तिथि
1.	डॉ. विष्णु चन्द्रशेखरन नायर	सहायक आचार्य	पेट्रोलियम इंजीनियरिंग और जियोइंजीनियरिंग	31.05.2022
2.	डॉ. जय कुमार कार्तिकेयन	डीएसटी इस्पायर	विज्ञान एवं मानविकी	28.07.2022

1 अप्रैल 2022-31 मार्च 2023 के दौरान संकाय सदस्य लंबी छुट्टी पर

क्र.सं.	नाम	पदनाम	विभाग	से	तक	विवरण
1.	डॉ. श्वेता	सहायक प्रोफेसर	रसायन अभियांत्रिकी एवं जैव रसायन अभियांत्रिकी	19.01.2023	17.07.2023	124 दिन का मातृत्व अवकाश
2.	डॉ. शिवांजलि शर्मा	सह प्राध्यापक	पेट्रोलियम अभियांत्रिकी और जियोइंजीनियरिंग	31.01.2023	28.07.2023	125 दिन का मातृत्व अवकाश
3.	डॉ. श्रावती मेधी	सहायक प्रोफेसर	असम एनर्जी इंस्टीट्यूट	05.09.2022 04.03.2023	03.03.2023 06.07.2023	121 दिन का मातृत्व अवकाश 86 दिन सीसीएल
4.	डॉ. निमिषा रघुवंशी	सहायक प्रोफेसर	असम एनर्जी इंस्टीट्यूट	30.01.2023	28.07.2023	180 दिन का मातृत्व अवकाश

1 अप्रैल 2022-31 मार्च 2023 के दौरान संकाय सदस्य असाधारण अवकाश पर

क्र.सं.	नाम	पदनाम	विभाग	से	तक	विवरण
1.	डॉ. नीरज कुमार	सहायक प्रोफेसर	कंप्यूटर विज्ञान एवं अभियांत्रिकी	13.02.2023	12.02.2024	365 दिन की असाधारण छुट्टी
2.	डॉ. सुप्रिया पुलिपाका	सहायक प्रोफेसर	रसायन अभियांत्रिकी एवं जैव रसायन अभियांत्रिकी	28.11.2022 09.03.2023	21.02.2023 06.06.2023	90 दिन की असाधारण छुट्टी 90 दिन की असाधारण छुट्टी

मानव संसाधन विकास

बाहरी प्रशिक्षण

क्रम संख्या	व्यक्तियों ने भाग लिया	स्थान	पाठ्यक्रम शीर्षक	अवधि	अनुभाग/ विभाग	संगठन जहां उपस्थित हुए
1.	डॉ. शैलेश कुमार	जायस	"WHOLE VALUE CHAIN CARBON CAPTURE, UTILIZATION AND STORAGE" WORKSHOP	17-19.10.2022	पेट्रोलियम अभियांत्रिकी और जियोइंजीनियरिंग	GAIL-GTI, NOIDA, INDIA.
			FLOW ASSURANCE USING OLGA SIMULATION WORKSHOP	07.05.2022		BY ALCHEMICAL
			"WHOLE VALUE CHAIN CARBON CAPTURE, UTILIZATION AND STORAGE" WORKSHOP	17-19.10.2022	पेट्रोलियम अभियांत्रिकी और जियोइंजीनियरिंग	GAIL, NOIDA, INDIA
2.	डॉ. अमित कुमार		AGM MEETING OF THE IEEE	20.01. 2023	कंप्यूटर विज्ञान एवं अभियांत्रिकी	IIT BHU VARANASI
3.	डॉ. दया सागर गुप्ता		ACTIVITY COMMITTEE MEET (ACM) ON BIO-FUELS	20.03. 2023	रसायन अभियांत्रिकी एवं जैव रसायन अभियांत्रिकी	NUMALIGARH REFINERY ASSAM
4.	डॉ. राकेश कुमार	जायस	INDUSTRIAL VISIT TO INSTITUTE OF RESERVOIR STUDIES (IRS), ONGC	11-16.12.2022	पेट्रोलियम अभियांत्रिकी और जियोइंजीनियरिंग	AHMEDABAD, GUJARAT
5.	डॉ. हेमन्त कुमार सिंह	जायस	INDUSTRIAL VISIT IRS- ONGC	11-16.12.2022	पेट्रोलियम अभियांत्रिकी और जियोइंजीनियरिंग	AHMEDABAD
6.	डॉ. तुषार शर्मा	जायस	"WHOLE VALUE CHAIN CARBON CAPTURE, UTILIZATION AND STORAGE" WORKSHOP	17.19.10.2022	पेट्रोलियम अभियांत्रिकी और जियोइंजीनियरिंग	GAIL-GTI, NOIDA
7.	डॉ. अमित सक्सेना	जायस	"WOMEN IN SCIENCE AND TECHNOLOGY- FOSTERING INNOVATION WORKSHOP	29-30.09.2022	पेट्रोलियम अभियांत्रिकी और जियोइंजीनियरिंग	IIT GANDHINAGAR
8.	डॉ. शिवांजलि शर्मा	जायस	ANNUAL GAS FORUM	20.01.2023	पेट्रोलियम अभियांत्रिकी और जियोइंजीनियरिंग	NEW DELHI
9.	डॉ. रोहित बंसल	जायस	SEMINAR TALK IN DEPARTMENT OF INSTRUMENTATION	08-10.12.2022	प्रबंधन अध्ययन	BENGALURU
10.	डॉ. विपिन अमौली	जायस	VISIT RAJA RAMANNA CENTER	29-01.04.2023	विज्ञान एवं मानविकी	(RRCAT), INDORE
			INDUSTRIAL VISIT LOHUM INDUSTRIES	22.03.2023	रसायन अभियांत्रिकी एवं जैव रसायन अभियांत्रिकी	GREATER NOIDA
11.	डॉ. करण मलिक	जायस	ACADEMIC VISIT IIT KANPUR	04-05.02.2023	विज्ञान एवं मानविकी	IIT KANPUR
12.	डॉ. अनिर्बन मुखर्जी	जायस	INDUSTRIAL VISIT TO (IRS), ONGC	11-16.12.2022	पेट्रोलियम अभियांत्रिकी और जियोइंजीनियरिंग	AHMEDABAD, GUJARAT

वार्षिक प्रतिवेदन 2022-2023

क्रम संख्या	व्यक्तियों ने भाग लिया	स्थान	पाठ्यक्रम शीर्षक	अवधि	अनुभाग/ विभाग	संगठन जहां उपस्थित हुए
15.	डॉ. देबाशीष पांडा	जायस	GREEN HYDROGEN (GH2) SUMMIT 2022	08-09.09.2022	विज्ञान एवं मानविकी	DELHI
			ONE-DAY INDUSTRY-ACADEMIA CONCLAVE ORGANISED BY TECHNOLOGY MISSION DIVISION (ENERGY, WATER & OTHER) OF DST, GOVT. INDIA	30.09.2022		NEW DELHI
			ACTIVITY COMMITTEE MEET (ACM) ON BIOFUELS	20.03.2023		NUM ALIGARH REFINERY ASSAM
16.	डॉ. शेखर गोगई	असम एनर्जी इंस्टीट्यूट	SYMPOSIUM & WORKSHOP	21-24.11.2022		IIT, GUWAHATI
17.	डॉ. सत्यजीत चौधरी	असम एनर्जी इंस्टीट्यूट	MGL- INDUSTRIAL VISIT	24.03. 2023		NATURAL GAS SOCIETY (NGS) MUMBAI
18.	डॉ. भास्कर ज्योति मेधी	असम एनर्जी इंस्टीट्यूट	SYMPOSIUM ON “ENERGY TRANSITION – CONCEPTS, OPPORTUNITIES & CHALLENGE” AND WORKSHOP ON “APPLIED STATISTICAL MODELLING & DATA ANALYTICS	21-24.11. 2022		IIT GUWAHATI
19.	डॉ. संतोष कुमार वर्मा	असम एनर्जी इंस्टीट्यूट	“ONE WEEK ONE LAB” PROGRAM	22.03.2023		CSIR-NEIST
20.	डॉ. नीलांबर बरिहा	असम एनर्जी इंस्टीट्यूट	MGL- INDUSTRIAL VISIT	23-25.03.2023		MUMBAI
21.	डॉ. अभिमन्यु कर	असम एनर्जी इंस्टीट्यूट	“ONE WEEK ONE LAB” PROGRAM	22.03.2023		CSIR-NEIST
22.	डॉ. हकीम नियास. यू. एस.	ऊर्जा संस्थान बेंगलुरु	INDUSTRIAL VISIT “MAHANAGAR GAS LIMITED” (MGL)	24.03. 2023		MUMBAI

सम्मेलन

क्रम संख्या	व्यक्तियों ने भाग लिया	स्थान	पाठ्यक्रम शीर्षक	अवधि	अनुभाग/ विभाग	संगठन जहां उपस्थित हुए
1	डॉ. शैलेश कुमार	जायस	HUMAN CAPITAL DEVELOPMENT CONFERENCE	27-28.02.2023	पेट्रोलियम अभियांत्रिकी और जियोइंजीनियरिंग	AHMEDABAD
2	डॉ. अमित कुमार	जायस	CHEMCON CONFERENCE 2022	28.12.2022	पेट्रोलियम अभियांत्रिकी और जियोइंजीनियरिंग	HBTU KANPUR
			“HUMAN CAPITAL DEVELOPMENT FOR ENERGY TRANSITION” CONFERENCE	27-28.02.2023		NEW DELHI
3	डॉ. आलोक कुमार	जायस	73RD ANNUAL MEETING AND SYMPOSIUM OF THE INTERNATIONAL COMMITTEE FOR COAL & ORGANIC PETROLOGY (ICCP-2022) CONFERENCE	18-25.09.2022	पेट्रोलियम अभियांत्रिकी और जियोइंजीनियरिंग	NEW DELHI
			INTERNATIONAL CONFERENCE “13TH WORD PETRO COAL CONGRESS-2023” AND VISIT THE CSIR	15-16.02.2023		
4	डॉ. देबाशीष जेना	जायस	25TH SOM-2022 CONFERENCE	16-18.12.2022	प्रबंधन अध्ययन	IIM INDORE
5	डॉ. दया सागर गुप्ता	जायस	5TH INTERNATIONAL CONFERENCE RAIT-2022	03-05.03.2023	कंप्यूटर विज्ञान एवं अभियांत्रिकी	IIT (ISM) DHANBAD
6	डॉ. कौशिक गुहा बिस्वास	जायस	CHEMCON-2022 CONFERENCE	27-30.12. 2022	रसायन अभियांत्रिकी एवं जैव रसायन अभियांत्रिकी	HBTU, KANPUR
7	डॉ. वी. एस. सिस्टला	जायस	“AGROCHEM SUMMIT 2023” CONFERENCE	24.02. 2023	रसायन अभियांत्रिकी एवं जैव रसायन अभियांत्रिकी	NEW DELHI
8	डॉ. मिलन कुमार	जायस	CHEMCON-2022 CONFERENCE	27-31.12. 2022	रसायन अभियांत्रिकी एवं जैव रसायन अभियांत्रिकी	HBTU, KANPUR
9	डॉ. गुंजन कुमार अग्रहरि	जायस	CHEMCON-2022 CONFERENCE	27-30.12.2022	रसायन अभियांत्रिकी एवं जैव रसायन अभियांत्रिकी	HBTU, KANPUR
			NATIONAL CONFERENCE UNDER BIOMASS MISSION	24.03. 2023		NEW DELHI

वार्षिक प्रतिवेदन 2022-2023

क्रम संख्या	व्यक्तियों ने भाग लिया	स्थान	पाठ्यक्रम शीर्षक	अवधि	अनुभाग/ विभाग	संगठन जहां उपस्थित हुए
10	डॉ. राकेश कुमार	जायस	CONFERENCE CHEMCON 2022	28.12. 2022	रसायन अभियांत्रिकी एवं जैव रसायन अभियांत्रिकी	HBTU KANPUR
11	डॉ. हेमन्त कुमार सिंह	जायस	“HUMAN CAPITAL DEVELOPMENT FOR ENERGY TRANSITION” CONFERENCE	27-28.02.2023	पेट्रोलियम अभियांत्रिकी और जियोइंजीनियरिंग	NEW DELHI
12	डॉ. अमरीश दुबे	जायस	“DEVICE INTELLIGENCE, COMPUTING AND COMMUNICATION TECHNOLOGY” (DICCT - 2023) INTERNATIONAL CONFERENCE	17-18.03.2023	इलेक्ट्रिकल्स और इलेक्ट्रॉनिक्स अभियांत्रिकी	GRAPHIC ERA UNIVERSITY, DEHRADUN
13	डॉ. रोहित बंसल		WPT & WOS – 2022 CONFERENCE	07-08.12. 2022	प्रबंधन अध्ययन	VIGYAN BHAWAN, NEW DELHI
			SBM, CONFERENCE 2023	23-25.03.2023		DOMS, IIT ROORKEE
14	डॉ. उमाप्रसना ओझा	जायस	16TH SPSI-MACRO-2022 CONFERENCE	02-04.11.2022	विज्ञान एवं मानविकी	PUNE
15	डॉ. करण मलिक	जायस	HUMAN CAPITAL DEVELOPMENT FOR ENERGY TRANSITION INTERNATIONAL CONFERENCE	27-28.02.2023	रसायन अभियांत्रिकी एवं जैव रसायन अभियांत्रिकी	
16	डॉ. गोबिंद रक्षित	जायस	CFART - 2023 CONFERENCE CEAT	21-25.02.2023	गणितीय विज्ञान	IIT, BOMBAY
17	डॉ. अरशद ऐजाज़	जायस	MODERN TREND IN INORGANIC CHEMISTRY (MITC)-XIX 2022 CONFERENCE	15-17.12.2022	विज्ञान एवं मानविकी	BANARAS HINDU UNIVERSITY
			ATTENDING THE 2ND RSC-CFOS-2022 CONFERENCE	01-04.12.2022		IIT ROORKEE, ROORKEE
			EMEE-2023 CONFERENCE	04 – 05.03.2023		(IIT) ROORKEE
18	डॉ. देबाशीष पांडा	जायस	59TH ANNUAL CONVENTION OF CHEMISTS & RTCS-2022 CONFERENCE ORGANISED BY INDIAN CHEMICAL SOCIETY	16-18.12.2022	विज्ञान एवं मानविकी	IIT (ISM) DHANBAD
19	डॉ. कविता श्रीवास्तव	जायस	“SUSTAINABLE BUSINESS MANAGEMENT” CONFERENCE	23 – 25.03.2023	प्रबंधन अध्ययन	DOMS, IIT ROORKEE
20	डॉ. भास्कर ज्योति मेधी	असम एनर्जी इंस्टीट्यूट	RESEARCH TALK AT 9TH INTERNATIONAL AND 49TH NATIONAL CONFERENCE OF (FMFP-2022)	14-16.12. 2022		IIT ROORKEE
21	डॉ. शिखा द्विवेदी	असम एनर्जी इंस्टीट्यूट	ICSM-2022 CONFERENCE			ICSM, JAIPUR
22	डॉ. अरुण कुमार	असम एनर्जी इंस्टीट्यूट	“SCIENCE FOR SOCIETY ENVIRONMENT AND SUSTAINABILITY” (SSES – 2022) CONFERENCE	24-26.11.2022		CSIR- NORTHEAST INSTITUTE OF SCIENCE AND (NEIST), JORHAT
23	डॉ. सव्यसाची प्रमाणिक	असम एनर्जी इंस्टीट्यूट	“SCIENCE FOR SOCIETY ENVIRONMENT AND SUSTAINABILITY” (SSES – 2022) CONFERENCE	24- 26-11- 2022		(NEIST), JORHAT, ASSAM
24	डॉ. एम चक्रपानी	असम एनर्जी इंस्टीट्यूट	(IEEE IAS GLOBCONHT 2023), CONFERENCE	11 – 12.03. 2023		MALDIVES NATIONAL UNIVERSITY, MALE CITY (MALDIVES)
25	डॉ. रूपजीत सैकिया	असम एनर्जी इंस्टीट्यूट	“OPTIMIZATION, LEARNING AND ANALYTICS IN BUSINESS-2022” (OLAB-2022) INTERNATIONAL CONFERENCE	15-17.12. 2022		HERITAGE INSTITUTE OF TECHNOLOGY, KOLKATA
			(NCAMS-2022) CONFERENCE	22- 23.12. 2022		GAUHATI UNIVERSITY, GUWAHATI, ASSAM
			“MATHEMATICAL SCIENCES AND APPLICATIONS” (ICMSA-2023) INTERNATIONAL CONFERENCE	24-26.03.2023		DR. BHIMRAO AMEDKAR UNIVERSITY, AGRA
26	डॉ. देबासिस डे	ऊर्जा संस्थान बेंगलुरु	(ICCDC-2023) INTERNATIONAL CONFERENCE	01-03.03. 2023		HALDIA, WEST BENGAL DURING
27	डॉ. हकीम नियास. यू. एस.	ऊर्जा संस्थान बेंगलुरु	(WESC-2022) CONFERENCE	18– 21.12.2022		ISTANBUL MEDEN YET UNIVERSITY, ISTANBUL, TURKEY

प्रशासनिक विभाग

राजीव गांधी पेट्रोलियम प्रौद्योगिकी संस्थान (आरजीआईपीटी) का प्रशासनिक विभाग दैनिक प्रशासनिक और वित्तीय मामलों में निदेशक की सहायता करने और विभिन्न वैधानिक दायित्वों का अनुपालन सुनिश्चित करने के उद्देश्य से स्थापित किया गया है। यह अनुभाग स्थापना, सामान्य प्रशासन, लेखा और लेखापरीक्षा अनुभागों में विभाजित है, जिसमें 10 अधिकारी और कर्मचारी सदस्य शामिल हैं, जो समान संख्या में आउटसोर्स कर्मचारियों द्वारा समर्थित हैं। आरजीआईपीटी प्रथम नियम, 2009 की धारा-15(5) में कुलसचिव के निम्न कर्तव्य निर्धारित किये गये हैं-

- क. संस्थान के अभिलेखों, संस्थान की मुहर और ऐसी अन्य संपत्तियों का संरक्षण, जिसे संचालक मण्डल ने सौंपा है;
- ख. संस्थान के विभिन्न प्राधिकारियों, जिनमें वह पदेन सचिव है, की बैठकें बुलाने के साथ-साथ इन प्राधिकारियों द्वारा नियुक्त किसी समिति की बैठकें बुलाने के लिए नोटिस जारी करना
- ग. निदेशक के अनुमोदनोपरांत कार्यसूची को जारी करना, कार्यवृत्त तैयार करना।
- घ. संस्थान के विभिन्न प्राधिकारियों, जिनका वह पदेन सचिव है, की सभी बैठकों के साथ-साथ इन प्राधिकारियों द्वारा नियुक्त किसी समिति की सभी बैठकों का विवरण रखना
- च. संस्थान के प्राधिकारियों की ओर से आधिकारिक पत्राचार करना
- छ. केंद्र सरकार को संस्थान के प्राधिकारियों की बैठकों की कार्यसूची तथा कार्यवृत्त जारी होते ही उपलब्ध कराना
- ज. संस्थान द्वारा या उसके विरुद्ध मुकदमों या कानूनी कार्यवाही में संस्थान का प्रतिनिधित्व करना, वकालतनामा पर हस्ताक्षर करना और स्वयं दलीलों को सत्यापित करना या इस उद्देश्य के लिए संस्थान प्रतिनिधि को नियुक्त करना, इत्यादि

प्रशासनिक प्रभागों के विभिन्न अनुभागों के प्रमुख कार्य इस प्रकार हैं

1. स्थापना: स्थापना अनुभाग मुख्य रूप से आरजीआईपीटी और उसके केंद्रों के लिए गैर-शिक्षण कर्मचारियों की भर्ती, उनके वार्षिक प्रदर्शन मूल्यांकन, नियमितीकरण और पदोन्नति के कार्यों को संपादित करता है। यह प्रत्येक गैर-शैक्षणिक कार्मिकों की सेवा पुस्तिकाएं और उनके वार्षिक अद्यतनीकरण, व्यक्तिगत फाइलों, अवकाश रिकॉर्ड, अवकाश यात्रा रियायत की मंजूरी और अन्य सेवा मामलों का भी रखरखाव करता है। इसके अलावा यह अनुभाग आरक्षण रोस्टर रजिस्टर, संस्थान और केंद्रों के सभी कर्मचारियों के एनपीएस खाते खोलना, प्रमाण पत्र जारी करना, वेतन निर्धारण, आवधिक वेतन वृद्धि जारी करना, प्रतिनियुक्ति, इस्तीफा और प्रतिधारण / ग्रहणाधिकार की समाप्ति, कर्मचारियों आदि के लिए प्रशिक्षण कार्यक्रम का संचालन करता है।

2. सामान्य प्रशासन: संस्थान का सामान्य प्रशासन संस्थान के स्वतंत्रता दिवस, गणतंत्र दिवस, दीक्षांत समारोह आदि जैसे समारोहों के आयोजन के लिए जिम्मेदार है। यह अनुभाग सामान्य परिषद, संचालक मण्डल, वित्त समिति और विद्या परिषद् की बैठकों की व्यवस्था करने के लिए भी जिम्मेदार हैं। बैठक की कार्यसूची और कार्यवृत्त, प्रशासनिक मंत्रालय के साथ संपर्क करना और आवश्यकता पड़ने पर उन्हें वांछित जानकारी और रिपोर्ट प्रदान करना। इसके अलावा यह अनुभाग आरटीआई अधिनियम, 2005 के तहत प्राप्त और निपटाए गए आवेदनों पर त्रैमासिक और वार्षिक रिटर्न दाखिल करने, सार्वजनिक शिकायत, आधिकारिक कार्यों में हिंदी के उपयोग, उम्मीदवारों के कल्याण के लिए किए गए उपायों पर रिपोर्ट के लिए नोडल कार्यालय है। एससी, एसटी, ओबीसी, ईडब्ल्यूएस, दिव्यांग, पूर्व सैनिक आदि। यह अनुभाग संस्थान के सभी कानूनी मामलों, प्रेस और मीडिया संबंधों, केंद्रों के साथ समन्वय, खरीद, जनशक्ति की आउटसोर्सिंग, अनुबंध प्रबंधन, अचल संपत्ति के भौतिक सत्यापन, अचल संपत्ति और उपभोज्य रजिस्ट्रों के रखरखाव, आवासीय एवं अन्य परिसर के आवंटन के लिए भी जिम्मेदार है।
3. वित्त और लेखा: वित्त अनुभाग विशेष रूप से वार्षिक खातों और बैलेंस शीट की तैयारी, संबंधित अधिकारियों के साथ एनपीएस, जीएसटी, टीडीएस, व्यावसायिक कर आदि जैसे वैधानिक बकाया के भुगतान और मासिक, त्रैमासिक और वार्षिक रिटर्न दाखिल करने में शामिल है। वे संस्थान और उसके केंद्रों के सभी कर्मचारियों के मासिक वेतन के वितरण, उनकी वेतन पर्ची और फॉर्म -16 जारी करने, कर्मचारियों के व्यक्तिगत दावों की प्रतिपूर्ति और आंतरिक लेखा परीक्षा की सिफारिश पर विक्रेताओं और अन्य सेवा प्रदाताओं को बिल भुगतान के लिए भी जिम्मेदार हैं। इसके अलावा वित्त और खाता अनुभाग उपकरण के आयात, बजट, पीएफएमएस संचालन, शुल्क रसीदों के सृजन, अग्रदाय के रखरखाव, धन के निवेश, वार्षिक लेखा लेखा परीक्षा के दौरान सी एंड एजी टीम के साथ समन्वय आदि के लिए ऋण पत्र स्थापित करने के लिए भी जिम्मेदार है।
4. आंतरिक लेखापरीक्षा: आंतरिक लेखापरीक्षा संस्थान का एक बहुत ही महत्वपूर्ण अनुभाग है जो संपूर्ण वित्तीय लेनदेन की जांच अवशेष राशि निर्धारित, समस्त लेनदेन की मंजूरी, वित्त के उपयुक्त संचालन और आंतरिक लेखा की समीक्षा के बाद सक्षम प्राधिकारी को सुधारात्मक उपाय करना प्रतिवेदन प्रस्तुत करता है। आंतरिक लेखा परीक्षा के कार्य के दायरे में आरजीआईपीटी जायस और इसके असम ऊर्जा संस्थान शिवसागर और ऊर्जा संस्थान, बंगलुरु स्थित केंद्रों के अनुबंध प्रबंधन, ट्रेजरी और नकदी प्रबंधन, भण्डारण, सम्पत्ति प्रबंधन इत्यादि शामिल हैं। यह अनुभाग भुगतान से पहले कर्मचारियों के सभी व्यक्तिगत दावों और विक्रेताओं और सेवा प्रदाताओं के बिलों

वार्षिक प्रतिवेदन 2022-2023

के प्रमाणीकरण, संस्थान और उसके केंद्रों के सभी खरीद प्रस्तावों की ऑडिटिंग के लिए जिम्मेदार है। यह अर्ध-वार्षिक आंतरिक ऑडिट भी करता है और निदेशक को प्रतिवेदन प्रस्तुत करता है और C&AG द्वारा लेखा परीक्षा के लिए नोडल एजेंसी है।

गैर-शैक्षणिक कर्मचारियों की संख्या

वर्तमान में आरजीआईपीटी जायस में नियमित पद पर 42 और इसके असम ऊर्जा संस्थान, शिवसागर केंद्र में 08 गैर-शैक्षणिक कार्मिक कार्यरत हैं। सदस्यों का विवरण निम्नवत है:

क्र. सं.	कर्मचारियों की श्रेणी	कुल संख्या	यूआर	एससी	एसटी	ओबीसी	पीएच
आरजीआईपीटी, जायस, अमेठी							
1	समूह क	8	5	0	0	3	
2	समूह ख	16	12	0	0	4	
3	समूह ग	18	11	2	0	5	2 (UR)
4	कुल	42	28	2	0	12	
असम ऊर्जा संस्थान (आईआई), शिवसागर							
1	समूह क	0	0	0	0	0	
2	समूह ख	5	4	0	0	1	
3	समूह ग	5	2	0	0	3	
4	कुल	10	6	0	0	4	

गैर-शैक्षणिक कार्मिकों के नाम निम्नवत हैं

क्र.सं.	स्टाफ का नाम	पदनाम
1	जितेन्द्र प्रसाद	संयुक्त कुलसचिव
2	समीर रंजन सिंह (प्रतिनियुक्ति पर)	उप कुलसचिव
3	हरीश कुमार यादव	कार्यकारी अभियंता (सिविल)
4	सुधीर अरोरा	सहायक कुलसचिव
5	अनिल कुमार वर्मा	सहायक प्रणाली अधिकारी
6	अरुण कुमार सिंह	सहायक कुलसचिव (सीनियर स्केल)
7	राकेश सिंह	सहायक कुलसचिव (सीनियर स्केल)
8	कृष्ण कांत	सहायक कुलसचिव
9	दीपक अस्थाना	तकनीकी अधीक्षक (ग्रेड- II)
10	श्वेता नेगी (प्रतिनियुक्ति पर)	अधीक्षक (ग्रेड- II)
11	धर्मेन्द्र प्रताप सिंह	शारीरिक प्रशिक्षण प्रशिक्षक
12	मधुप्रिया	अधीक्षक (ग्रेड- II)
13	उमेश कुमार शर्मा	अधीक्षक (ग्रेड- II)
14	तेज प्रकाश जोशी	अधीक्षक (ग्रेड- II)
15	अंकित मोहन	अधीक्षक (ग्रेड- I)
16	लोकेश भटनागर	प्रणाली अधीक्षक (ग्रेड- II)
17	मोहम्मद इल्ताफ जफर	तकनीकी अधीक्षक (ग्रेड-III)
18	अरुण कुमार सिंह	तकनीकी अधीक्षक (ग्रेड- II)
19	बृजेश प्रताप सिंह	सहायक अभियंता (सिविल)
20	उत्कर्ष	सहायक अभियंता (विद्युत)
21	राजेश कुमार विश्वकर्मा	सहायक सुरक्षा अधिकारी (ग्रेड- I)
22	अरविन्द कुमार यादव	अधीक्षक (ग्रेड- I)
23	अंकित पचौरी	प्रणाली अधीक्षक (ग्रेड- I)
24	जहूर आलम	तकनीकी अधीक्षक (ग्रेड- I)
25	अश्विनी कुमार चौधरी	सहायक प्रणाली (ग्रेड-III)
26	विवेक सिंह (प्रतिनियुक्ति पर)	सहायक (ग्रेड-III)
27	योगेश शर्मा	सहायक (ग्रेड-III)

क्र.सं.	स्टाफ का नाम	पदनाम
28	अमित कुमार बाजपेयी	सहायक (ग्रेड-III)
29	प्रीति सिंह	सहायक (ग्रेड-III)
30	उमेश कुमार शर्मा	सहायक (ग्रेड-III)
31	गोविंद कुमार तिवारी	पुस्तकालय एवं सूचना सहायक (ग्रेड-III)
32	कृष्ण कुमार सोनकर	पुस्तकालय एवं सूचना सहायक (ग्रेड-III)
33	प्रदीप कुमार वर्मा	पुस्तकालय एवं सूचना सहायक (ग्रेड-III)
34	रवि द्विवेदी	सहायक (ग्रेड- I)
35	अमित कुमार श्रीवास्तव	सहायक (ग्रेड- I)
36	शशि मिश्रा	सहायक (ग्रेड- I)
37	गौरव सिंह गहरवार	तकनीशियन (ग्रेड- I)
38	एकता चौधरी	सहायक (ग्रेड- I)
39	राहुल सिंह	सहायक (ग्रेड- I)
40	नेहा पांडे	सहायक (ग्रेड- I)
41	त्रिविक्रम	तकनीशियन (ग्रेड- I)
42	बृजेश कुमार वर्मा	तकनीशियन (ग्रेड- I)
असम ऊर्जा संस्थान (आईआई), शिवसागर		
1	सुरामोनी बोरठाकुर	तकनीकी अधीक्षक (ग्रेड- I)
2	सौगातो डे	तकनीकी अधीक्षक (ग्रेड- I)
3	सौरव ज्योति भराली	तकनीकी अधीक्षक (ग्रेड- I)
4	अघना तियास मंडल	अधीक्षक (ग्रेड- I)
5	प्रद्युम्न फुकन	अधीक्षक (ग्रेड- I)
6	परिश्रिता शर्मा बरुआ	सहायक (ग्रेड- I)
7	पुलकेश कुमार	सहायक (ग्रेड- I)
8	कौशिक दास	सहायक (ग्रेड- I)
9	तपन ज्योति गोगोई	तकनीशियन (ग्रेड- I)
10	सुमीर कुमार सैकिया	तकनीशियन (ग्रेड- I)

शीर्ष समितियों की बैठक

वित्तीय वर्ष 2022-23 के दौरान सामान्य परिषद, संचालक मण्डल, वित्त समिति और विद्या परिषद् जैसी शीर्ष समितियों की बैठक संस्थान संस्थान के प्रथम नियमों क्रानून में उल्लिखित प्रावधानों के अनुसार आयोजित की गई। संपन्न बैठक का विवरण इस प्रकार है: क्रानून में उल्लिखित प्रावधानों के अनुसार आयोजित की गई। संपन्न बैठक का विवरण इस प्रकार है:

शीर्ष समिति	आयोजित बैठकों की संख्या	बैठक की तारीखें
सामान्य परिषद	1	1. 17 अक्टूबर 2022
संचालक मण्डल	4	1. 07 मई 2022 2. 12 जुलाई 2022 3. 30 सितंबर 2022 4. 10 दिसंबर 2022
वित्त समिति	4	1. 06 मई 2022 2. 12 जुलाई 2022 3. 30 सितंबर 2022 4. 10 दिसंबर 2022
विद्या परिषद्	4	1. 06 मई 2022 2. 04 नवंबर 2022 3. 28 नवंबर 2022 4. 06 मार्च 2023

रसायन अभियांत्रिकी एवं जैव रसायन अभियांत्रिकी विभाग

स्थापना का वर्ष: 2009

विभागाध्यक्ष: डॉ. मिलन कुमार, सहायक आचार्य

विभाग का संक्षिप्त परिचय

परंपरागत रूप से, रसायन अभियांत्रिकी की वह धारा है जिसका उद्देश्य कच्चे माल को आर्थिक और आत्मनिर्भर तरीके से उपयोगी उत्पादों में रासायनिक परिवर्तन करना है। जिस उद्देश्य और दृष्टिकोण के साथ आरजीआईपीटी की स्थापना की गई है, उसके अनुरूप, आरजीआईपीटी में रसायन अभियांत्रिकी एवं जैव रसायन अभियांत्रिकी विभाग (सीईबीई) का लक्ष्य मजबूत तकनीकी पृष्ठभूमि और सामाजिक प्रतिबद्धता वाले विशेषज्ञों को प्रशिक्षित करना और आने वाले भविष्य की मांग अनुरूप तैयार करना है जो राष्ट्र को अपनी ऊर्जा को पूरा करने में मदद करेंगे। सीईबीई विभाग, देश के अनूठे विभागों में से एक, विशेष रूप से तेल और गैस क्षेत्र और सामान्य रूप से ऊर्जा क्षेत्र का समर्थन करने वाले केमिकल इंजीनियरिंग क्षेत्रों से संबंधित गतिविधियों, सुविधाओं और पाठ्यक्रम का प्रबंधन करता है, और उद्योगों के साथ एक सीधा और सहक्रियात्मक इंटरफ़ेस का आनंद लेता है।

सीईबीई विभाग तेल एवं गैस और ऊर्जा क्षेत्र में पेशेवरों को प्रशिक्षित और तैयार करने के लिए निम्नलिखित प्रमुख बीटेक कार्यक्रम प्रदान करता है:

1. रसायन अभियांत्रिकी में बीटेक
2. नवीकरणीय ऊर्जा इंजीनियरिंग में प्रमुखता के साथ रसायन अभियांत्रिकी में बीटेक (2022 से शुरू)
3. पेट्रोकेमिकल्स और पॉलिमर अभियांत्रिकी में प्रमुखता के साथ रसायन अभियांत्रिकी में बीटेक (2023 से शुरू)

इनके अलावा, विभाग विभिन्न एमटेक और पीएचडी कार्यक्रम भी चलाता है।

हमारी कक्षा शिक्षण रचनात्मकता और नवीनता को बढ़ाने पर केंद्रित है। तेल, गैस और ऊर्जा विशिष्ट क्षेत्र वाले संस्थान होने के नाते, हमारे पाठ्यक्रम को इन विशेष क्षेत्रों पर जोर देने के साथ डिजाइन किया गया है।

विभाग अपने संकाय सदस्यों और छात्रों को उद्योग के साथ इंटरफ़ेस करने के लिए दृढ़ता से प्रोत्साहित करता है और विभिन्न गतिविधियों में औद्योगिक भागीदारी और साझेदारी चाहता है।

विभाग समय-समय पर विभिन्न छात्र कार्यक्रम, प्रशिक्षण कार्यक्रम और व्याख्यान श्रृंखला भी आयोजित करता है, जैसे रिफाइनरियों के अधिकारियों के लिए 'पेट्रोलियम रिफाइनरिंग प्रौद्योगिकी' पर प्रशिक्षण कार्यक्रम, विभागीय व्याख्यान श्रृंखला, मॉड्यूलर पाठ्यक्रम और उद्योग विशेषज्ञों और पूर्व छात्रों के साथ इंटरैक्टिव सत्र। इसके अलावा, अमेरिकन इंस्टीट्यूट ऑफ केमिकल इंजीनियर्स (एआईसीएचई) और

इंडियन इंस्टीट्यूट ऑफ केमिकल इंजीनियर्स (आईआईसीएचई) के छात्र चैप्टर द्वारा व्याख्यान श्रृंखला भी समय-समय पर आयोजित की जाती है।

अनुसंधान के प्रमुख क्षेत्र

विभाग में अनुसंधान जल विभाजन से हरित हाइड्रोजन उत्पादन, हाइड्रोजन उत्पादन के लिए फोटोकैटलिटिक जल विभाजन, CO₂ कैप्चर और रसायनों में रूपांतरण, हाइड्रोजन और अमोनिया गैसों का भंडारण, तेल और गैस क्षेत्रों के लिए संक्षारण अवरोधकों का विकास, डीसल्फराइजेशन जैसे क्षेत्रों पर केंद्रित है। पेट्रोलियम उत्पादों, वैनेडियम रिडॉक्स फ्लो बैटरी, ईंधन सेल, पायरोलिसिस, माइक्रोफ्लुइडिक्स, जैव ईंधन, सोखना, नैनोमटेरियल्स, बायोरेमिडिएशन और सामग्री विज्ञान।

आधारभूत संरचना

क्र.सं.	विवरण	संख्या
1.	कक्षाओं की संख्या	08
2.	व्याख्यान कक्षों की संख्या	
3.	प्रयोगशाला की संख्या	12
4.	विभाग में छात्रों के लिए उपलब्ध कंप्यूटरों की संख्या	35

Unique Achievement / Preposition of the Department/Centre

- Mr. Kamal Nayan received Ph.D. offer from University of Toronto Canada.
- Mr. Alok Kumar & Mr. Karan Kumar Paswan received Ph.D. offer from University of Houston USA.
- Mr. Sree Abey Vignesh received Ph.D. offer from University of Oklahoma USA.
- Mr Dev Raj, a 4th-year chemical engineering student, stood second in the UG category in the All India New Generation Ideation Contest 2022 organised by HPCL.
- Mr. Devrat Kapil, Student, Department of Chemical Engineering and Biochemical Engineering has been awarded the Bank of Baroda Achievers Award 2023

वार्षिक प्रतिवेदन 2022-2023

under “Best in all-rounder”. The award includes prize money of Rs. 31000/-.

- Mr. Ajeet Prajapati (20CE0002) won 3rd prize in oral session in SCHEMCON 2022 organised by NIT Warangal, Telangana, 23-24 September 2022.
- Mr. Amit Gomey (20CE0003) won 2nd Prize in International Conference organised by Motilal Nehru National Institute of Technology Allahabad, Prayagraj and School of Chemical Engineering University Sains Malaysia, Pinang, 14-16 April, 2022
- Mr. Anshu Pandey (20CE3006) received Donald F. Othmer second year student academic excellence award (2022-23) by international body of AIChE (New York, USA), December 2022.
- Mr Dhruv Mishra (20CE3010) received First year recognition award (2022-23) by international body of AIChE (New York, USA), January 2023
- Mr. Pranjal Maheshwari (EChE18-061), Chemical Engineering student, won Institute's Gold Medal and President's Gold Medal at RGIPT.
- Dr. Deepak Dwivedi is invited for guest editing a special issue for Nature Scientific Reports (Nature) (IF: 5.134)

शैक्षणिक कार्यक्रमों की पेशकश

नए शुरू किए गए पाठ्यक्रम

मॉड्यूलर पाठ्यक्रम

- उत्पाद की गुणवत्ता को नियंत्रित करना: विश्लेषण, मॉडलिंग सिमुलेशन और
- विनिर्माण प्रक्रिया का अनुकूलन-CH383M)
- कंप्यूटर विज्ञान और अभियांत्रिकी, सूचना प्रौद्योगिकी, इलेक्ट्रॉनिक्स अभियांत्रिकी और गणित और कंप्यूटिंग जैसे अन्य स्ट्रीम के स्नातक छात्रों के लिए रसायन अभियांत्रिकी में बी.टेक माइनर कार्यक्रम।

रसायन अभियांत्रिकी में बी.टेक / नवीकरणीय ऊर्जा अभियांत्रिकी में मेजर के साथ रसायन अभियांत्रिकी में बी.टेक

विषय इस प्रकार हैं-

क्र. सं.	पाठ्यक्रम कोड	पाठ्यक्रम का नाम	पाठ्यक्रम क्रेडिट
B-Tech 1st Year			
1	CH161	Engineering Thermodynamics	11
2	CH121	Fluid Mechanics	11
3	CH111/ CH112	Chemical Engineering Practices/ Renewable Engineering Practices	5
B. Tech 2nd Year			
1	CH262	Chemical Engineering Thermodynamics	11

क्र. सं.	पाठ्यक्रम कोड	पाठ्यक्रम का नाम	पाठ्यक्रम क्रेडिट
2	CH222	Fluid Flow Operations	8
3	CH171	Mass Energy Balance	8
4	CH223	Solid Fluid Mechanics And Mechanical Operations	8
5	CH223L	Fluid Flow & Mechanical Operation Lab	2
6	MS211	Materials Science	9
7	CH191	Fundamental of polymer & Petrochemical	6
8	CH281	Petroleum Refining Engineering	9
10	CH231	Heat Transfer Operations	13
11	CH251	Chemical Reaction Engineering –I	8
B. Tech 3rd Year			
1	CH274	Mass Transfer Operations -1	13
2	CH352	Chemical Reaction Engineering -2	8
3	CH301	Process Instrumentation	6
4	CH381	Lube Base oil & Wax Processing	9
5	CH302	Biomass & Biofuels Engineering	6
6	CH392	Chemical Process technology	9
7	CH342	Process Dynamics and control	13
8	CH375	Mass Transfer Operation -2	6
9	CH312	Equipment Design	11
10	CH401	Transport Phenomenon	6
11	CH204	Chemical Engineering Software lab	2
12	CH419	B-Tech. Project	10
13	CH393	Refinery Process Design	9
14	CH551	Electrochemical Process and Energy System	9
B. Tech 4th Year			
1	CH413	Plant Design	11
2	CH376	Mass Transfer operation-III	9
3	CH543	Fluidization Engineering	9
4	CH591	Petrochemical Engineering	9
5	CH504	Hydrogen Energy	9
6	CH405	Biochemical Engineering	6
7	CH420	B-Tech Project	10
8	CH402	Industrial Pollution and Control	8
9	CH443	Modelling Simulation optimization	9
10	CH443L	Modelling Simulation optimization Lab	2
11	CH481	Natural Gas Processing	9
12	CH491	Polymer Composites	9
13	CH451	Electrochemical process and energy system	9

छात्र संख्या

क्र.	कार्यक्रम	I वर्ष	II वर्ष	III वर्ष	IV वर्ष
1.	B. Tech	51 8 (major in Renewable Energy Engg.)	12	18	64
2.	Ph. D (Under Institute Fellowship)	5	2	7	2

वार्षिक प्रतिवेदन 2022-2023

उन छात्रों/विद्वानों के नाम जिन्होंने विदेश में या भारत में सम्मेलनों/कार्यशालाओं/सेमिनारों और संगोष्ठियों में भाग लिया

क्र. स.	छात्र का नाम	रोल नंबर	सम्मेलन/संगोष्ठी/संगोष्ठी/कार्यशाला	दिनांक एवं स्थान	वित्तीय सहायता
भारत					
1	श्री अनिल वर्मा	PMS19001	CHEMCON-2022	2022, December 27-30). HBTU Kanpur	संस्थान अनुदान
2	श्री रोहित सिंह	20CE0010	SCHEMCON-2022	23rd-24th September 2022, NIT Warangal	संस्थान अनुदान
3	सुश्री स्वाति चौधरी	22CE0007	CHEMCON-2022	(2022, December 27-30), HBTU Kanpur	संस्थान अनुदान
4	श्री सिद्धार्थ अटल	22CE0008	CHEMCON-2022	(2022, December 27-30). HBTU Kanpur	संस्थान अनुदान
5	श्री सौरभ कुमार	22CE0006	CHEMCON-2022,	(2022, December 27-30). HBTU Kanpur	संस्थान अनुदान
6	श्री वाशिम जी	22CE0009	CHEMCON-2022,	(2022, December 27-30, HBTU Kanpur	संस्थान अनुदान
7	श्री सुजीत कुमार पांडे	20CE0010	CHEMCON-2022	(2022, December 27-30, HBTU Kanpur	संस्थान अनुदान
8	श्री आश मोहम्मद	20CE0001	CHEMCON-2022	(2022, December 27-30, HBTU Kanpur	संस्थान अनुदान
9	श्री योगेन्द्र यादव	PMS19002	1. 2022 MRS Spring Meeting & Exhibit (Oral) online 2. International Conference on Frontiers in Materials Engineering (ICFME-2022) 3. CHEMCON-2022	1. May 23 2022, Honolulu, Hawai'i, USA 2. December 14 -16 December 2022, IIT Indore 3. December 27-30 Kanpur 2022, HBTU Kanpur	संस्थान अनुदान
10	श्री नियामत उल्लाह खान	20CE0008	CHEMCON-2022	2022, December 27-30, HBTU Kanpur	संस्थान अनुदान
11	श्री अजीत प्रजापति	20CE0002	1. SEFCO-2022 2. SCHEMCON-2022 3. CHEMCON-2022	1. 26 th -27 th August 2022, CSIR-IIP, Dehradun, Uttarakhand India 2. 23 rd -24 th September 2022, NIT-Warangal, Telangana, India 3. December 27-30, 2022 HBTU Kanpur	संस्थान अनुदान
12	श्री अमित गोमी	20CE0003	1. Research Related Solutions for Faculty and Research Scholars 2. Optimization in Oil & Gas and Chemical Industry 3. Characterization Technique of Material and Devices 4. Application of Optimization Techniques in Engineering (AOTE) 5. International Conference on Technological Interventions for Sustainability (Chem-Conflux22) 6. International Conference on "Sustainability in chemical processes through Digitalization, Artificial Intelligence and Green Chemistry" (ChemCon22) (Online) 7. Introduction to Data Analysis using Microsoft Excel 8. Introduction to AI for managers 9. International Conference on "Sustainability in chemical processes through Digitalization, Artificial Intelligence and Green Chemistry" (ChemCon22)	1. January, 1st 2022 to February, 4th 2022, RGIPT, Jais 2. February, 7th to February, 11th 2022, RGIPT, Jais 3. March, 14th to March, 15th 2022, CSIR - National Physical Laboratory, New Delhi 4. March, 28th to April, 1st 2022, Zakir Husain College of Engg. And Technology Aligarh Muslim University, Aligarh 5. April 14th to 16th, 2022, Motilal Nehru National Institute of Technology Allahabad, Prayagraj and School of Chemical EUniversity Sains Malaysia, Pinang 6. December 27th to December 30th, 2022, (Thailand) online 7. August 23rd, 2022, Coursera (Online Website) 8. September 22nd, 2022, Cloudx Lab (IIT Roorkee) 9. December 27th to December 30th, 2022, Indian Institute of Chemical Engineers, Kanpur	संस्थान अनुदान
13	सुश्री शिखा शर्मा	22CE0012	1. CHEMCON-2022, HBTU Kanpur 2. International Symposium, School of Energy Technology, PDEU, Gujarat	1. 2022, December 27-30 Kanpur 2. 2023, May 19-20 May, Ahmedabad, Gujarat	संस्थान अनुदान

वार्षिक प्रतिवेदन 2022-2023

संस्थान के बाहर पुरस्कार एवं पुरस्कार प्राप्त करने वाले छात्रों/विद्वानों के नाम

क्र.सं.	छात्र का नाम	रोल नंबर	पुरस्कार का नाम	तिथि और स्थान	पुरस्कार दिया गया
1	श्री अजीत प्रजापति	20CE0002	3rd prize in oral session in SCHEMCON 2022	23-24 September 2022, NIT Warangal, Telangana	Organiser Secretary
2	श्री अमित गोमी	20CE0003	2nd Prize in International Conference	April 14th to 16th, 2022, Prayagraj	Motilal Nehru National Institute of Technology Allahabad, Prayagraj and School of Chemical Engineering Universiti Sains Malaysia, Pinang
3	श्री अंशू पांडे	20CE3006	Donald F. Othmer second year student academic excellence award (2022-23)	December 2022	international body of AIChE (New York, USA)
4	श्री ध्रुव मिश्रा	20CE3010	First year recognition award (2022-23)	January 2023	international body of AIChE (New York, USA)

दीक्षांत समारोह/संस्थान दिवस पुरस्कार जीतने वाले विद्वानों/छात्रों के नाम

क्रम संख्या	छात्र का नाम	रोल नंबर	पुरस्कार का नाम	पुरस्कार द्वारा प्रदान किया गया
1	श्री प्रांजल माहेश्वरी	EChE18-061	Institute's Gold Medal	आरजीआईपीटी
2	श्री प्रांजल माहेश्वरी	EChE18-061	President's Gold Medal	आरजीआईपीटी

संकाय और उनकी गतिविधि

संकाय और विशेषज्ञता के उनके क्षेत्र

क्र.सं.	नाम, योग्यताएं, कर्मचारी संख्या	पीएचडी डिग्री प्रदान करने की तिथि	विशेषज्ञता के प्रमुख क्षेत्र (अधिकतम 3 क्षेत्र)
आचार्य			
1	प्रो. ए.एस.के. सिन्हा, निदेशक	1990	Heterogeneous Catalysis for photocatalysis, hydrocarbons generation and bio-fuel production; Production, storage and uses of hydrogen; Process intensification
	प्रो. अमित रंजन	2007	Polymeric Nanostructures, Oxide Semiconductor Nanoparticles, Composite Materials, Fracture in Soft Materials, Complex Fluids
	प्रो. एम. एस. बालाथानिगईमनी,	2009	Adsorbed Natural Gas, Hydrogen storage by Adsorption, Adsorptive Desulfurization
सह आचार्य			
1	डॉ. राकेश कुमार	2011	Process Modeling & Simulation, CO2 Capture Using Ionic Liquids/Deep Eutectic Solvents, Advanced Separation Processes, Biodiesel Production
2	डॉ. मिलन कुमार	2011	Redox flow battery, Electrolyser, Fuel cell
सहायक आचार्य			
1	डॉ. कौशिक गुहा विश्वास	August 2015	Microfluidics, Multiphase Flow, Biofuels
2	डॉ. वी. एस. सिस्टला	July 2012	Crystallization, Industrial Catalysis
3	डॉ. गुंजन कुमार अग्रहरी	July 2013	Biofuel Production from waste, Membrane Separation, Microbial fuel cell
4	डॉ. दीपक द्विवेदी	2020	Corrosion Science and Engineering, Surface Science and Engineering, Adsorption to minerals and fluid-mineral interaction
5	डॉ. श्वेता	March 2017	Rheology of complex fluids, Biofuel, Interfacial rheology of crude oil-water interfaces
6	डॉ. विवेक कुमार	June 2019	Economic Plantwide Control, Smart Control Structure design, Modelling and Simulation
7	डॉ. करण मलिक	July 2021	Batteries, Fuel Cells, Electrochemical Systems
8	डॉ. सुप्रिया पुलिपाका	2020	Batteries, Photoelectrochemical water splitting, Renewable energy
अतिथि संकाय			
1	डॉ. अरविन्द सिंह	March 2018	Heterogeneous Catalysis & Hydrogen Energy, Bio-fuels & Biomaterials, Bioremediation
मानद संकाय			
1.	डॉ. आर पी वर्मा	Ex-Executive Director & Head (R&D), Indian Oil Corporation Limited	
2.	डॉ. के डी पी निगम	Ex. Professor, IIT Delhi	
3.	श्री आशीष नाग	Ex. Executive Director, Indian Oil Corporation Limited	
4.	प्रो. एस.एन. उपाध्याय	Ex Director, IIT BHU	
5.	श्री प्रसाद के पणिकर	Director and Head, Refinery Operations Nayara Energy Limited	
6.	प्रो. ही मून	Professor (Retd.), Chonnam National University, South Korea	

तकनीकी और गैर-शिक्षण कर्मचारी

क्र.सं.	नाम, योग्यता	पदनाम, कर्मचारी संख्या	विभाग में नियुक्ति की तिथि
1.	श्री अरुण कुमार सिंह	तकनीकी अधीक्षक (ग्रेड-II)	16 th August 2019
2.	श्री उमेश कुमार शर्मा	सहायक (ग्रेड III)	16 th August 2019
3.	श्री अनुज श्रीवास्तव	सहायक ग्रेड I (अनुबंध पर)	20 th December 2019
4.	श्री महेश मोर्य	परिचारक (अनुबंध पर)	16 th August 2019
5.	श्री सुजीत कुमार	परिचारक (अनुबंध पर)	16 th August 2022

वार्षिक प्रतिवेदन 2022-2023

संकाय सदस्यों द्वारा आयोजित लघु अवधि के पाठ्यक्रम/कार्यशालाएं/सेमिनार/संगोष्ठी/सम्मेलन

क्र.सं.	समन्वयक	शीर्षक	अवधि
1	डॉ. दीपक द्विवेदी	Recent Advances in Oil and Gas Production Enhancement	14 th to 18 th February 2022
2	डॉ. दीपक द्विवेदी	Corrosion in petroleum refineries and petrochemical industries	16 th to 20 th January 2023
3	डॉ. दीपक द्विवेदी	Petroleum Refining Technology	18 th to 22 nd July 2022
4	डॉ. दीपक द्विवेदी	"Petroleum Refining Technology"	7 th to 11 th March 2022
5	डॉ. राकेश कुमार	Workshop on the topic "Application of Aspen Simulation for Chemical Engineering Students" conducted by Guru Ghasidas Vishwavidyalaya (GGV) Bilaspur, Chhattisgarh, India	22 nd to 26 th August 2022
6	डॉ. करण मलिक एवं डॉ. गुंजन कुमार अग्रहरी	Training Program for the IOCL officials	26 th to 30 th June 2023
7	डॉ. करण मलिक एवं डॉ. गुंजन कुमार अग्रहरी	Training Program for the IOCL officials	03 rd to 07 th July 2023

शैक्षणिक संस्थानों और सार्वजनिक क्षेत्र के उपक्रमों में संकाय सदस्यों द्वारा भाग लेने वाले अल्पकालिक पाठ्यक्रम/कार्यशालाएं/सेमिनार/संगोष्ठी/सम्मेलन/प्रशिक्षण कार्यक्रम

क्र. सं.	संकाय सदस्य का नाम	शीर्षक	अवधि और स्थान
सेमिनार/संगोष्ठी/सम्मेलन			
1	डॉ. कौशिक गुहा विश्वास	CHEMCON 2022 at HBTU Kanpur, India	December 27-30, 2022, HBTU, Kanpur
2	डॉ. कौशिक गुहा विश्वास	Faculty Development Program SMRE (Scope for Multidisciplinary Research and Education)	(23.7.22 - 14.8.22), Online
3	डॉ. कौशिक गुहा विश्वास	Multiphase Flow-Research and Applications (MFRA-2023)	11.03.2023 (Online)
4	डॉ. मिलन कुमार	India Energy Week	February 6-8 2023, Bengaluru, India
5	डॉ. मिलन कुमार	National e-Workshop on Innovation and Intellectual Property Rights (NeW IPR-2022)	June 13-18, 2022, Online
6	डॉ. मिलन कुमार	Chemical Engineering Congress (CHEMCON 2022)	December 27-30, 2022, HBTU, Kanpur
7	डॉ. मिलन कुमार	Hydrogen Valley in Kerala -Hydrogen Valley Platform in India	15th February 2023, Online
8	डॉ. मिलन कुमार	International Platform on Hydrogen Economy an Industry-Academia Conclave	30th September 2022, New Delhi
9	डॉ. राकेश कुमार	CHT-ACM on Bio-fuels: a better fuel for a cleaner future at Numaligarh refinery, Assam	20th March 2023
10	डॉ. राकेश कुमार	Chaired a session on Wastewater Treatment in SCHEMCON-2022, at NIT Warangal, India	22nd –24th September 2022
11	डॉ. राकेश कुमार	CHEMCON-22, at HBTU Kanpur, India	27th –31st December 2022
12	डॉ. करण मलिक	Conference on "Human Capital Development for Energy Transition"	27th February 2023
बैठक			
1	डॉ. राकेश कुमार	Visited, Sardar Swaran Singh National Institute of Bioenergy (SSS NIBE), Kapurthala, Punjab, India	12th September 2022

अन्य संस्थानों में संकाय सदस्यों द्वारा दिए गए विशेष व्याख्यान

क्र.सं.	संकाय सदस्य का नाम	व्याख्यान का विषय	संस्थान	दिनांक
1	डॉ. राकेश कुमार	CO2 Capture using Deep Eutectic Solvents	Loyola Academy, Hyderabad, India	4th September 2022
2	डॉ. दीपक द्विवेदी	Modern Understanding on Adsorption using Advanced In-situ Techniques	The 4th Research and Innovation Conference at IMC-Oman	29th March 2022
3	डॉ. दीपक द्विवेदी	In-situ morphological and synergism characterization techniques for corrosion inhibitors used in upstream pipelines	Sathyabama Institute of Science and Technology and University of Technology Sydney, Australia	19th - 21th October, 2022

वार्षिक प्रतिवेदन 2022-2023

सम्मान और पुरस्कार

क्र.सं.	संकाय सदस्य का नाम	पुरस्कार का विवरण
1	डॉ. दीपक द्विवेदी	1. Awarded Senior Visiting Researcher Position (with full funding) at University of Cambridge, UK (2021-ongoing) 2. Awarded Senior Visiting Researcher Position (with full funding) at University of Cambridge, UK (2021-ongoing) 3. Appointed as International Invited Member (Research), Dublin City College, Ireland (2021-ongoing) 4. Invited for guest editing a special issue for Nature Scientific Reports (Nature) (IF: 5.134)
2	डॉ. करण मलिक	Distinction in Doctoral Research-2021 (awarded on August 2022), Department of Chemical Engineering, IIT Delhi

शैक्षणिक और व्यावसायिक समाजों की फैलोशिप

क्र.सं.	संकाय सदस्य का नाम	फैलोशिप का विवरण
1	डॉ. करण मलिक	IITChE (life member)

पुस्तकें, मोनोग्राफ लेखक/सह-लेखक

क्र.सं.	लेखक/सह-लेखक	शीर्षक	प्रकाशक
1.	Tahereh Jafary, Anteneh Mesfin Yeneneh, Jimoh Adewole, Asma Al Kharousi, Thirumalai Kumar, Dev Raj, Alok Kumar, Prerna Tripathi, A.S.K. Sinha, Deepak Dwivedi	Current advances, challenges and prospects of CO ₂ capture, storage and utilization	Elsevier
2.	Dr. Deepak Dwivedi (Co- Author)	Corrosion Mitigation in Oil Reservoirs during CO ₂ Injection using Nanomaterials	Elsevier
3.	Deepak Dwivedi, Amit Ranjan, Jitendra S. Sangwai	Introduction to Functional Materials: Synthesis, Properties, Environmental Sustainability, and General Applications. Accepted in Edited book on "Functional materials for corrosion mitigation in oil and gas industry"	CRC Press, accepted, in Press
4.	Ajeet Kumar Prajapati, Suraj Aryan, Sukriti Singh, Deepak Dwivedi, Nellya Serikova, Bijoy K. Purohit	Application of Functional Ceramics in Oil and Gas Industries: Properties and Current Status. Accepted in Edited book on "Functional materials for corrosion mitigation in oil and gas industry"	CRC Press, accepted, in Press
5.	Ganesh Kumar, Yogendra Kumar, Jitendra S. Sangwai, Deepak Dwivedi	Application of Modern Functional Materials in Petroleum Exploration and Process Development. Accepted in Edited book on "Functional materials for corrosion mitigation in oil and gas industry"	CRC Press, accepted, in Press
6.	Prerna Tripathi, Yogendra Yadawa, Anshika Verma, Pranav Kumar, A.S.K. Sinha, Deepak Dwivedi, Anteneh Mesfin Yeneneh, Khadija Al-Balushi	Application of Self-Cleaning Materials in the Oil and Gas Industry. Accepted in Edited book on "Functional materials for corrosion mitigation in oil and gas industry"	CRC Press, accepted, in Press
7.	Yogendra Kumar, Prerna Yogeshwar, Ganesh Kumar, Jitendra S. Sangwai, Deepak Dwivedi	Microstructural and chemical characterization techniques of coatings: State of the arts. Accepted in Edited book on "Functional materials for corrosion mitigation in oil and gas industry"	CRC Press, accepted, in Press
8.	Siddharth Atal, Deepak Dwivedi, Naveen Mani Tripathi	Corrosion under insulation (CUI) in Oil and Gas Industries. Accepted in Edited book on "Functional materials for corrosion mitigation in oil and gas industry"	CRC Press, accepted, in Press
9.	Ajeet Kumar Prajapati, Suraj Aryan, Sukriti Singh, Deepak Dwivedi, Nellya Serikova, Bijoy K. Purohit	Application of Functional Ceramics in Oil and Gas Industries: Manufacturing, Properties, and Current Status. Accepted in Edited book on "Functional materials for corrosion mitigation in oil and gas industry"	CRC Press, accepted, in Press
10.	Deeksha Pathak, Deepak Dwivedi	Science and Engineering of Functional Coatings used in Energy Sectors. Accepted in "Functional Coatings: Innovations & Challenges"	
11.	K.R. Chaturvedi, K.G. Biswas, T. Sharma	Retention nanoparticle in porous media: Implications for fluid flow	

वार्षिक प्रतिवेदन 2022-2023

क्र.सं.	लेखक/सह-लेखक	शीर्षक	प्रकाशक
12.	L. Das, A. Tripathi, K. G Biswas, K.D.P. Nigam	Plastic waste and wheat straw into biofuels and conversion of wastewater into agricultural use water (Accepted)	
13	S. Poddar, K. Sahoo, U.S Behera, K.G. Biswas, K.D.P. Nigam,	Conversion of waste materials and CO ₂ into useful products (Accepted)	
14.	S Kumar, N Nag, S Kumari, IJR Sarkar, Arvind Singh	Vanadium Redox Flow Batteries for Large-Scale Energy Storage	Recent Technologies for Waste to Clean Energy and its Utilization. Clean Energy Production Technologies.Springer, Singapore, In: DB Pal, (Ed.)
15.	S Kumar, Arvind Singh, R Kishor	Algal Biomass Production Coupled to Wastewater Treatment	Phycoremediation Processes in Industrial Wastewater Treatment (1st ed.). CRC Press, In: MP Shah (Ed.)

पत्रिकाओं के संपादकीय बोर्ड

क्र.सं.	संकाय सदस्य का नाम	पद (संपादक/सदस्य)	जर्नल का नाम
1	डॉ. दीपक द्विवेदी	Editorial board member	Loss Prevention in the Process Industries (Elsevier)
2	डॉ. दीपक द्विवेदी	Editorial board member	Nature Scientific Reports (Nature)
3	डॉ. दीपक द्विवेदी	Editorial board member	Corrosion Engineering, Science and Technology (Taylor and Francis)
4	डॉ. दीपक द्विवेदी	Editorial board member	Green Technology, Resilience, and Sustainability (Springer)

डिजाइन और विकास गतिविधियां

नई सुविधाएं जोड़ी गईं

क्र.सं.	विवरण (बुनियादी ढांचा, उपकरण, आदि)	मूल्य (लाख रुपये में)
1	High Pressure Stirred Reactor System	₹ 2,46,750/-
2	Process Controller for High pressure Reactor	₹ 2,89,100/-
3	Float Glass Fume Hood	₹ 149980/-
4	Catalytic Reactor	₹ 95000/-
5	Gas Chromatograph	₹ 643335/-
6	3DGence Industry F350 3D Printer	₹ 4455000/-
7	UV - Visible	₹ 303500/-
8	UV - Visible	₹ 303500/-
9	Mass Flow Controller	₹ 97000/-
10	Digital Ultrasonic Controller	₹ 106200/-
11	Interfacial Rheology System	₹ 1139750/-
12	Plasma Treatment Setup	₹ 702100/-
13	Gas Chromatograph	₹ 5,45,000/-
14	Mass Flow Controller	₹ 1,23,000/-

अनुसंधान और परामर्श

प्रायोजित अनुसंधान परियोजनाएं

क्र. सं.	शीर्षक	अवधि	फंडिंग एजेंसी	राशि (लाख रुपये में)	समन्वयक
1	Readiness and interest of Indian Refineries for adopting AL/ML technology for operations	2022-23	Department of Scientific and Industrial Research (DSIR)	23.09	Dr. Milan Kumar, Dr. Kavita Srivastava Mr. Nandan Mishra
2	Flue Gas Decarbonization Using Novel Green Solvents	March 2021 – February 2024	Council of Science and Technology (CST), Uttar Pradesh, India	11.94	Dr. Rakesh Kumar(PI) Prof. MS Balathanigaimani (Co-PI)
3	Syngas formation from direct gas phase co-electrolysis of CO ₂ and H ₂ O at high current density using amine functionalized electrodes and elevated pressure	2019 & for two years, Completed in March 2023	Council of Scientific & Industrial Research	4.05	Dr. V. S. Sistla
4	Syngas formation from direct gas phase co-electrolysis of CO ₂ and H ₂ O at high current density using amine functionalized electrodes and elevated pressure	October 2022 (two years)	SERB-DST	25.68	Dr. Karan Malik

औद्योगिक परामर्श परियोजनाएँ

क्र. सं.	संकाय सदस्य का नाम	शीर्षक	उद्योग	राशि (लाख रुपये में)
1.	डॉ. दीपक द्विवेदी	Consultancy and Advisory for Chhattisgarh Environment Conservation Board, Raipur 2022-23	Environment Conservation Board, Raipur	Per visit 50,000 and advisory: as per CECB norms and training 2.5 lakhs/ training
2.	डॉ. दीपक द्विवेदी	Pesticide Application Technologies for Circular Economy [from April 2023-September 2024 [(UTB/ GSR/2/2023(20))	by Universiti Teknologi Brunei	B\$8,000

एमओयू के तहत अन्य विश्वविद्यालयों के साथ संकाय सदस्यों की भागीदारी

अनुसंधान प्रकाशन

क्रम संख्या		संख्या
1.	अंतर्राष्ट्रीय संदर्भ पत्रिकाओं में प्रकाशित पत्रों की कुल संख्या	22
2.	राष्ट्रीय सम्मेलनों में प्रस्तुत पत्रों की कुल संख्या	13
3.	अंतर्राष्ट्रीय सम्मेलनों में प्रस्तुत पत्रों की कुल संख्या	1

अंतर्राष्ट्रीय संदर्भ पत्रिकाएँ

- Raj, D., Kumar, A., Singh, R. K., Bhadouria, A. S., Sinha, A. S. K., & Dwivedi, D. (2022). Application of Advanced Nuclear Analytical Techniques for the Electrocatalyst's Characterization: Paving the Path for Mechanistic Investigations. Current Opinion in Electrochemistry, 100958. (Corresponding author) [IF: 7.2]
- Shah, U., Dwivedi, D., Hackett, M., Al-Salami, H., Utikar, R. P., Blanchard, C., ... & Johnson, S. K. (2021). Physicochemical characterisation of kafirins extracted from sorghum grain and dried distillers grain with solubles related to their biomaterial functionality. Scientific Reports, 11(1), 1-11. [IF: 5.134]
- Mishra, Y.,..., Nigam, K.D.P., Sinha, A. S. K., Dwivedi, D.* & Sangwai, J.* (2023). Functionalized Nanoparticles: Tailoring Properties through Surface Energetics and Coordination Chemistry for Advanced Biomedical Applications [Recently accepted in RSC Nanoscale] (IF: 8.3)
- Nickel Nanoparticle-directed Flow Synthesis of Biodiesel from Waste Cooking Oil, R. Shukla, P. Jaiswal, A. Maharana,

D. Panda, K.G. Biswas, Waste and Biomass Valorization, 2023 (In Press)

- Non-Newtonian Nanofluids Mediated 15-fold Enhancement of Mass Transfer for Two- Phase Flow Systems in Microchannel, P. Jaiswal, R. Shukla, D. Panda, K.D.P Nigam, K.G. Biswas, Chemical Engineering & Processing: Process Intensification, 186 (2023) 109342.
- Catalytic Deactivation and Regeneration of Nickel Microparticle in a Home-build Microchannel-coupled-Millireactor: Substrate-Specificity and Multiphase Flow Dependency, P. Jaiswal, P. Yogeshwar, K.G. Biswas, D. Panda, ChemPhysChem, 2023, e202300026, 1-11.
- Covalently immobilized nickel nanoparticle reinforces augmentation of mass transfer in millichannel for two-phase flow systems, P. Jaiswal, Y. Kumar, K.D.P. Nigam, D. Panda, K.G. Biswas*, Industrial & Engineering Chemistry Research, 61 (2022) 3672-3684.
- Sanjay Kumar Kar, Akhouri Sudhir Kumar Sinha, S. Harichandan, Rohit Bansal, M.S. Balathanigaimani, Hydrogen Economy in India: A Status Review, WIREs Energy and Environment, 12 (2023) e459.
- M.Sonker, S. K. Tiwary, N. Shreyash, S. Bajpai, M. Ray, S. K. Kar, M.S. Balathanigaimani, Ammonia as an alternative fuel for vehicular applications: Paving the way for adsorbed ammonia and direct ammonia fuel cells, Journal of Cleaner Production, 376 (2022) 133960.
- S. Harichandan, Sanajy Kumar Kar, Rohit Bansal, S. K. Mishra, M.S. Balathanigaimani, M. Dash, Energy transition research: A bibliometric mapping of current findings and direction for future research, Cleaner Production Letters, 03 (2022) 100026.
- Anwesh Kumar, Hannu-Pekka Komsa, D.P. Pathak, M.S. Balathanigaimani, Akhouri Sudhir Kumar Sinha, J. Karthikeyan, Origin of Enhanced Photocatalytic Activity in Direct Band Gap g-C3N4 Nanoribbons with Tunable Electronic Properties for Water-Splitting Reaction: A First-Principles Study, The Journal of Physical Chemistry C, 126 (2022) 19627.
- K.J. Hwang, M.S. Balathanigaimani, Y.H. Choi, S.D. Yoon, W.G. Shim, Influence of Ultra-micropore Volume of Activated Carbons Prepared from Noble Mung Bean on the Adsorption Properties of CO₂, CH₄ and N₂, New Journal of Chemistry, 46 (2022) 17577
- Divyam Jha, Pranjal Maheshwari, Yugank Singh, Mohd Belal Haider, Rakesh Kumar, M.S. Balathanigaimani, A comparative review of extractive desulfurization using

designer solvents: Ionic liquids & deep eutectic solvents, Journal of the Energy Institute, 2023, 110, 101313

- Akshay Jain, Bhaskor Jyoti Bora, Rakesh Kumar, Prabhakar Sharma, Hiranya Deka "Theoretical potential estimation and multi-objective optimization of water hyacinth (Eichhornia Crassipes) biodiesel powered diesel engine at variable injection timings" Renewable Energy, 2023, 206, 514-530
- Akshay Jain, Bhaskor Jyoti Bora, Rakesh Kumar, Prabhakar Sharma, Balakrishnan Deepanraj, Kashif Irshad, Ch. Ravikiran "Application of hybrid Taguchi L16 and desirability for model prediction and optimization in assessment of the performance of a novel water hyacinth biodiesel run diesel engine" Fuel, 2023, 339, 127377
- Himanshu Kesharwani, Mohd Belal Haider, Rakesh Kumar, Shivanjali Sharma "Performance evaluation of deep eutectic solvent for surfactant polymer flooding" Journal of Molecular Liquids, 2022, 362, 119734
- A. Uttam, B. K. Purohit, Minh Tam Le, V.S. Sistla Disodium Phosphate Dodecahydrate Salt Hydrate-Based Approach for Thermal Energy Storage Systems Journal of Technical Education Science, volume 74, page 1-7, year 2023.
- Comparative Studies of Co/SBA-15 Catalysts Synthesized with Different Silica Sources Including Coal Fly Ash for Fischer-Tropsch Synthesis
- P.K. Gupta, V Kumar, S Maity, GK Gupta, S Datta, Arvind Singh, et al. Chemistry Select 8(11), 2023, e202204962.
- Processing Induced Morphology Change in ZnO-TiO₂ Multilayer Thin Films and its Effect on Their Photocatalytic Activity Under Visible Light Irradiation Y Yadawa, S Singh, A Ranjan Materials Science and Engineering B 288, 116164 (2023)
- Enhanced adsorption of methylene blue by mixed-phase bismuth
- ferrite prepared by non-aqueous sol-gel route S Singh, Y Yadawa, A Ranjan Journal of Environmental Chemical Engineering, 109229 (2022)
- Altered phase behavior of the lauric acid-stearic acid binary mixtures in electrospun PVA-PDMS mats S Perween, A Ranjan Materials Advances 3, 2737-2748, (2022)

राष्ट्रीय संदर्भ जर्नल / अंतर्राष्ट्रीय सम्मेलनों की कार्यवाही

- 3-D micromodel for visualization & experimental analysis of flow behaviour, surface tension and polymer concentration on enhanced oil recovery, A. Tandon, F. Khan, R. Shukla, A. Saxena, S. Sharma, and K.G. Biswas, Offshore Technology Conference (OTC) -31352-MS, 2022.

Refereed National Journal

Proceedings of National Conferences

1. Ajit Patel and Milan Kumar, Green hydrogen production using redox mediated electrolyser, CHEMCON 2022
2. Aash Mohammad and Milan Kumar, An energy efficient flow field for a scaled-up vanadium redox flow battery, CHEMCON 2022
3. Niyamat Ullah Khan and Milan Kumar, Study the design and fabrication of membrane-less electrolyzer for H₂ production, CHEMCON 2022
4. Shiwang Vats, Himanshu Bhansali and Milan Kumar, The modeling performance curve of a vanadium redox flow battery, CHEMCON 2022
5. Nanoparticles Aided Process Intensification for Liquid-Liquid Flow In Small Diameter Conduits, A. Kumar, A. Anand, P.N. Singh, K.G. Biswas, CHEMCON 2022.
6. Synthesis of toluene and gallic acid with N,N-Dimethylmethanamide (DMF) through helical coil flow inventor(CFI) in heating environment, A. Tripathi, S. Pal, K.G. Biswas, D. Panda, CHEMCON 2022
7. Nanomaterials augmented hydrodynamics of liquid-liquid flow in milli-channels, P.N. Singh, A. Tripathi, D. Panda, K.G. Biswas, CHEMCON 2022.

Most cited articles published in last five years

1. Pranjal Maheshwari, Mohd Belal Haider, Mohammad Yusuf, Jiri Jaromir Klemes, Awais Bokhari, Mukarram Beg, Amani Al-Othman, Rakesh Kumar, Amit K Jaiswal, "A review on latest trends in cleaner biodiesel production: Role of feedstock, production methods, and catalysts" Journal of Cleaner Production, Volume 355, 2022, 131588. <https://doi.org/10.1016/j.jclepro.2022.131588>

Description: The rising world population and its corresponding energy demands pose a considerable burden on natural energy sources. The exploitation of fossil fuels at such an alarming rate blurs the goals of sustainable development and controlling global warming as pledged during the Paris Agreement. Due to the detrimental effects of exhausts from conventional diesel fuel on the environment, biodiesel has earned significant importance during the last decade. Biodiesel is produced from different feedstocks such as neem oil, palm oil, waste frying oil, vegetable oil, animal fat, microbial oil, etc. These feedstocks react with acidic, alkaline, enzymic, homogeneous, heterogeneous, and hybrid Deep Eutectic Solvents (DES) catalysts, along with monohydric alcohol via transesterification reaction. The

flexibility in its feedstock and the type of catalysts used, production cost, biodegradable and renewable nature makes it a promising alternative fuel than conventional diesel. The selection of apt feedstock and catalyst is the challenging task and governing factor of economic biodiesel production. Green solvents such as DES have high thermal stability and low volatility and can address the economic and green production issues significantly as compared to conventional alkali and acid catalysts. This review bridges the gap between the selection of feedstock and optimal catalyst for the respective feedstock. The exploration of DES fills the gap by attributing to 3Rs (i.e., recyclability, recovery, and reusability). This review highlights the contemporary trends and prospects in the selection of the feedstocks, synthesis routes, and catalysts for the transesterification reactions for biodiesel production.

2. Somendra Singh, S. Perween, Amit Ranjan, "Dramatic enhancement in adsorption of congo red dye in polymer-nanoparticle composite of polyaniline-zinc titanate" *Journal of Environmental Chemical Engineering*, Volume 9, Issue 3, 2021, 105149. <https://doi.org/10.1016/j.jece.2021.105149>.

Description: In this paper, they report a dramatic enhancement in the adsorptive removal of Congo Red (CR) dye by polyaniline-zinc titanate (PANI/ZTO) nanocomposite as compared with that when PANI or ZTO are used separately. The dye exhibited little adsorption in the presence of lab-synthesized pristine ZnTiO₃ (ZTO) powder as adsorbent and somewhat moderate adsorption in the presence of neat polyaniline whereas excellent and much faster adsorption was exhibited in the presence of PANI/ZTO nanocomposite. The composite was prepared by carrying out the polymerization of aniline in the presence of ZTO suspensions. The composite samples were characterized using X-Ray diffraction, FT-IR Spectroscopy, Field emission scanning electron microscopy, X-ray photoelectron spectroscopy, and Dynamic light spectroscopy, and the adsorption kinetics were studied using UV-Vis spectroscopy. The characterization data suggest that the adsorption of the CR dye gets enhanced because PANI chain molecules which are chiefly responsible for adsorption through hydrogen bonding and π - π interactions with the dye, get adsorbed/tethered on to the ZTO nanoparticles, and thereby overcome the mass transfer limitation by

being better exposed to the dye molecules. The kinetics of adsorption followed the pseudo-second-order rate equation and the rate of adsorption was controlled by intra-particles diffusion. The isotherm was best described by the Langmuir model and the maximum adsorption was calculated to be 64.51 mg/g. The value of 7.80 kJ/mole obtained from the Dubinin-Radushkevich (D-R) model suggested the physisorption of CR onto PANI/ZTO nanocomposite. These results suggest that the mass of a polymeric substance, in general, can be better utilized for adsorption by suitably dispersing them over the surface of appropriate support nanoparticles.

3. Mohd Belal Haider, Rakesh Kumar, "Solubility of CO₂ and CH₄ in sterically hindered amine-based deep eutectic solvents", *Separation and Purification Technology*, Volume 248, 2020, 117055. <https://doi.org/10.1016/j.seppur.2020.117055>

Description: Decarbonization of methane is essential in many applications such as biogas and natural gas. Solvents with high selectivity towards CO₂ are required for the upgradation of biogas and natural gas. Deep eutectic solvents (DESs) sharing green properties of ionic liquids have shown the ability to capture CO₂ selectively. In this work, they have synthesized four novel secondary amine-based DESs using quaternary ammonium salt as hydrogen bond acceptor. The CO₂ and CH₄ uptake of the synthesized DESs were experimentally investigated. The viscosities of DESs were also evaluated and correlated with the Vogel-Fulcher-Tammann (VFT) and the Arrhenius equation. The modified Lydersen-Joback-Reid method was used for the critical properties estimation of synthesized DESs. All the synthesized DESs have shown high CO₂ absorption and relatively very low CH₄ absorption indicating their high selectivity towards CO₂. The experimental DES-CO₂ and DES-CH₄ vapor-liquid equilibria were successfully correlated with the NRTL model and Peng-Robinson equation of state.

4. Divyam Jha, Mohd Belal Haider, Rakesh Kumar, Marriyappan Sivagnanam Balathanigaimani, "Extractive desulfurization of fuels using diglycol based deep eutectic solvents", *Journal of Environmental Chemical Engineering*, Volume 8, Issue 5, 2020, 104182. <https://doi.org/10.1016/j.jece.2020.104182>

Description: In this work, the effect of Deep Eutectic Solvents (DESs) on sulfur extraction of organo-sulfur

compounds was investigated. Different DESs were prepared using a common hydrogen bond donor, Diglycol, and different hydrogen bond acceptors. The effects of experiment variables such as temperature, DESs/feed ratio, and the time on desulfurization efficiency of different organo-sulfur compounds were also studied. Results show that Tetra butyl ammonium bromide based DES showed relatively higher sulfur removal capabilities (Dibenzothiophene (DBT): -92 %, 2- Methylthiophene (2-MT): -86 % and Thiophene (T): -71 %) as compared to other DESs. Also, all DESs have higher DBT extraction efficiency followed by 2-MT and T. Further, non-random two liquids (NRTL) thermodynamic model was employed to model liquid-liquid equilibrium.

5. Shama Perween, Nitu Kumari Thakur, Mukarram Beg, Shivanjali Sharma, Amit Ranjan, "Enhancing the properties of water based drilling fluid using bismuth ferrite nanoparticles", Colloids and Surfaces A: Physicochemical and Engineering Aspects, Volume 561, 2019, Pages 165-177. <https://doi.org/10.1016/j.colsurfa.2018.10.060>

Description: Drilling fluids are characterized by rheological and filtration characteristics and control of these properties is critical to the success of drilling operation. Among the popular additives for the control of these properties, nanoparticles are emerging to be one of the best additives for drilling fluids. For water based muds, rheology and filtration loss is generally controlled by polymers and it can

also be improved by addition of small amounts of nanoparticles. In this paper, they have synthesized a BiFeO₃ (BFO) nanoparticle by non-aqueous wet chemical techniques and used as additive for water based mud along with bentonite and other polymeric additives. BFO nanoparticles showed good compatibility with clay resulting in improved mud properties. Interaction of nanoparticles with clay and polymers resulted in enhanced apparent viscosity (AV), plastic viscosity (PV), yield point (YP), and API fluid loss. It was found that increasing the nanoparticle concentration from zero to 0.30 w/v% resulted in 25% increase in AV, PV and YP whereas a 35% decrease in API filtrate loss was observed at 20 °C before hot rolling. Even after hot rolling at 110 °C, these properties were not degraded significantly as was the case with mud without nanoparticles. Nanoparticles combined with bentonite platelets imparted good thermal stability to the drilling fluid.



High Pressure Sorption Analyser



Industry 3D Printer
Model No- F350



Rheometer Anton
Paar (MCR 302e)



Plasma Treatment
Setup



Surface Area And Pore Size Distribution Analyzer Belsorp Max II



Newchrom 6800 Gas Chromatograph

पेट्रोलियम अभियांत्रिकी एवं भू-अभियांत्रिकी विभाग

स्थापना का वर्ष: 2009

विभागाध्यक्ष: आचार्य सतीश कुमार सिन्हा (अगस्त 2019)

विभाग/केंद्र का संक्षिप्त परिचय

विभाग छात्रों के लिए अपनी उन्नत शिक्षाशास्त्र और अत्याधुनिक अनुसंधान सुविधाओं के माध्यम से क्षेत्र में ज्ञान के प्रवाह को सुविधाजनक बनाने पर केंद्रित है। यह उन्हें पेट्रोलियम उद्योग में आवश्यक भूविज्ञान, भूभौतिकी, जलाशय, ड्रिलिंग, उत्पादन संचालन और अर्थशास्त्र के क्षेत्र में प्राप्त ज्ञान को समझने, विकसित करने और लागू करने में सक्षम बनाता है। विभाग जलाशय इंजीनियरिंग, ड्रिलिंग द्रव डिजाइन और विश्लेषण, उन्नत तेल वसूली, प्रवाह आश्वासन, जलाशय मॉडलिंग और सिमुलेशन, गैस हाइड्रेट्स, भूविज्ञान, भूभौतिकी और रॉक यांत्रिकी में स्नातक अध्ययन और अनुसंधान के लिए कई प्रयोगशालाओं की मेजबानी करता है।

वर्ष 2007 में स्थापित, विभाग का उद्देश्य उद्योग के लिए तैयार छात्र प्रदान करके देश में तेल और गैस उद्योगों में अपनी पहचान बनाना है जो चुनौतीपूर्ण और आगामी क्षेत्रों में काम कर सकें। तेल उद्योग विकास बोर्ड (ओआईडीबी) के सहयोग से छह प्रमुख तेल सार्वजनिक क्षेत्र इकाइयों (ओएनजीसी, आईओसीएल, ओआईएल, गेल, बीपीसीएल और एचपीसीएल) के सक्षम मार्गदर्शन के तहत पेट्रोलियम इंजीनियरिंग के क्षेत्र में विभाग ने शिक्षा और अनुसंधान में अपनी उपस्थिति दर्ज की है। इस विभाग के पूर्व छात्र ओएनजीसी, श्रुम्बरगर, हॉलिबर्टन सर्विसेज, बेकर ह्यूजेस, शेल, ऑयल इंडिया, अदानी गैस, एस्सार ऑयल, केयर्न ऑयल एंड गैस जैसे प्रतिष्ठित उद्योगों से जुड़े रहे हैं।

विभाग में अनुभवी संकाय सदस्य, उद्योग विशेषज्ञों द्वारा सहायता प्राप्त तकनीकी कर्मचारी हैं जिनकी उपलब्धियों ने संस्थान को प्रशंसा दिलाई है। विभाग द्वारा प्रस्तावित स्नातक और स्नातकोत्तर पाठ्यक्रम पेट्रोलियम इंजीनियरिंग के क्षेत्र में अधिकांश अंतर्राष्ट्रीय विश्वविद्यालयों द्वारा पेश किए जाने वाले पाठ्यक्रमों के बराबर हैं। विभाग ने पूर्वानुमान व्यवहार की समझ में सुधार के लिए शैक्षणिक वर्ष 2021-22 से भूविज्ञान और इंजीनियरिंग (भूविज्ञान और इंजीनियरिंग में बी.टेक और भूभौतिकीय प्रौद्योगिकी/भूवैज्ञानिक प्रौद्योगिकी में एम.टेक) में एक आईडीडी कार्यक्रम भी शुरू किया है। पृथ्वी प्रणालियाँ और प्रक्रियाएँ, और प्राकृतिक संसाधनों की खोज।

अनुसंधान के प्रमुख क्षेत्र

- ड्रिलिंग तरल पदार्थ डिजाइन और विश्लेषण
- बढ़ी हुई तेल की पुनर्प्राप्ति
- जलाशय सिमुलेशन
- जलाशय अभियांत्रिकी

- अच्छी तरह से परीक्षण विश्लेषण
- CO₂ पृथक्करण
- प्रवाह सुनिश्चित करना
- गैस हाइड्रेट्स
- पेट्रोलियम भूभौतिकी
- निकट भूतल भूभौतिकी
- कार्बनिक पेट्रोलॉजी और स्रोत रॉक लक्षण वर्णन
- इंजीनियरिंग भूविज्ञान
- रॉक यांत्रिकी
- रॉक भौतिकी

आधारभूत संरचना

क्र.सं.	विवरण	संख्या
1	कक्षाओं की संख्या	3Nos. (AB-1:LR2, L-4 & LR-5)
2	प्रयोगशाला की संख्या	UG-4 & PG-2
3	विभाग/केंद्र/केंद्र में छात्रों के लिए उपलब्ध कंप्यूटरों की संख्या	14 (for PG students)

विभाग की उपलब्धि

शैक्षणिक कार्यक्रम

क्र. सं.	पाठ्यक्रम कोड	पाठ्यक्रम का नाम	पाठ्यक्रम क्रेडिट
1	PE-421	अपरंपरागत हाइड्रोकार्बन संसाधन	6
2	PE-443	पेट्रोलियम क्षेत्र संसाधन प्रबंधन	6
3	PE-331	पेट्रोलियम सुविधाएं डिजाइन एवं संचालन	11
4	PE-241	जलाशय इंजीनियरिंग लेब	2
5	PE-544	तेल और गैस उद्योग के लिए वाद्य तकनीक	9

छात्र संख्या

क्र. सं.	कार्यक्रम	I वर्ष	II वर्ष	III वर्ष	IV वर्ष	V वर्ष और अधिक
1.	बी.टेक		46	27	43	
2.	एम.टेक		6			
3.	पीएच.डी. (संस्थान फैलोशिप के तहत)		7	6	2	1
4.	पीएच.डी. (प्रोजेक्ट फैलोशिप के तहत)	3		1		
5.	पीएच.डी. (प्रायोजित श्रेणी के अंतर्गत)	1	1			

वार्षिक प्रतिवेदन 2022-2023

छात्रों/विद्वानों के नाम जिन्होंने विदेश में या भारत में सम्मेलनों/कार्यशालाओं/सेमिनारों और संगोष्ठियों में भाग लिया

क्रमांक	छात्र का नाम	रोल नंबर	सम्मेलन/संगोष्ठी/संगोष्ठी/कार्यशाला	दिनांक एवं स्थान	वित्तीय सहायता
भारत					
1	हिमांशु केसरवानी		5th South Asian Geosciences Conference and Exhibition,	Geo India 2022, 14-16 October, 2022	RGIPT
2	कौशल किशोर कौशल किशोर और मनीष कुमार श्रीवास्तव	21PE 0006 21PE 0006 21PE0102	1. Capacity building and scientific writing and communication skill 2. National Seminar on conventional, renewable energy sources and climate change perspective	25th to 30th November 2022, BHU and Geochemical Society 23-24 June 2023 Organized by Gondwana Geological Society with Geological Survey of India	Registration fees waive off by Organizer All the expenses borne by the Organizers
3	दिव्यांशू सिंह	21PE0005	1. International Conference on Engineering Geology and Geotechniques for safe and sustainable infrastructures (EGCON-2022) 2. Capacity building and scientific writing and communication skill 3. 9 th Indian Rock Conference Organized by Indian Society for Rock Mechanics and Tunnelling Technology (ISRMTT) in association with Central Soil and Materials Research Station	16-17 Nov-2022; Kolkata 25-30 Nov-2022, BHU 16-18 November, 2023, New Delhi	DST Registration fees waive off by Organize DST
4	कुमार नीलांकर	21PE0008	1. International Conference on Engineering Geology and Geotechniques for safe and sustainable infrastructures (EGCON-2022) 2. Petroleum Rock Fluid Characterization (workshop)	16-17 Nov-2022; Kolkata 20-26 June, 2022	RGIPT IIT (ISM) Dhanbad
5	जयन्त कुमार	21PE1003	5th International Oil & Gas Chemistry, Chemicals and Additives Conference (IOGCA 2022)	22-23 Sep 2022, Ahmedabad	RGIPT
6	अबुल आस	PG19-001	5th South Asian Geoscience Conference and Exhibition International Conference on Engineering Geology and Geotechniques for safe and Sustainable Infrastructures	October 14-16, 2022, Jaipur November 16-17, 2022, Kolkata	RGIPT
विदेश					
1	हिमांशु केसरवानी		83rd EAGE Annual Conference & Exhibition, 2022.	6-9th June, 2022 Madrid, Spain.	DST, India

संस्थान के बाहर पुरस्कार एवं पुरस्कार प्राप्त करने वाले विद्यार्थियों/विद्वानों के नाम

क्रम संख्या	छात्र का नाम	रोल नंबर	पुरस्कार का नाम	तिथि और स्थान	पुरस्कार दिया गया
1	कृष्ण राघव चतुर्वेदी	PPE17002	Best PhD Thesis in New Energy Studies	June 7, 2023	FIPI India

संकाय और उनकी गतिविधि

संकाय और विशेषज्ञता के उनके क्षेत्र

क्रम संख्या	नाम, योग्यताएं, कर्मचारी संख्या	पीएचडी डिग्री प्रदान करने की तिथि	विशेषज्ञता के प्रमुख क्षेत्र (अधिकतम 3 क्षेत्र)
आचार्य			
1	डॉ. आलोक कुमार सिंह	1997	Coal & Organic Petrology, Thermal Maturation and petroleum Source Rock Characterization
2	डॉ. सतीश कुमार सिन्हा	15 दिसंबर 2006	Geomechanics, Seismic Data Analysis, Reservoir Characterization
सह आचार्य			
1	डॉ. तुषार शर्मा	09-02-2015	EOR, CO2 Capturing/ Utilization, Nanofluid, Rheology
2	डॉ. शिवांजलि शर्मा	15 मई 2015	Drilling Fluids, EOR, Flow Assurance
सहायक आचार्य			
1	डॉ. अमित सकसैना	9 नवंबर 2015	Oil Field Chemicals Additives, EOR, Drilling Fluid, Cementing, AI/ML application in oil field
2	डॉ. शैलेश कुमार	अक्टूबर 2018	Flow Assurance, Drilling Fluid Design and Analysis, Crude Oil Characterization
3	डॉ. हेमंत कुमार सिंह	20 जुलाई 218	Geomechanics, Experimental Rock Mechanics, Engineering Geology
4	डॉ. पीयूष सरकार	मार्च 2019	Rock Physics, Petrophysics, Geophysics
5	डॉ. अमित कुमार	31 जुलाई 2020	EOR
6	डॉ. सिद्धांत कुमार प्रसाद	30 सितंबर, 2022	Gas hydrates and Flow assurance, Carbon sequestration, EOR
7	डॉ. सिद्धार्थ गौतम	08 अगस्त 2023	Drilling Fluid

शैक्षणिक संस्थानों और सार्वजनिक क्षेत्र के उपक्रमों में संकाय सदस्यों द्वारा भाग लेने वाले अल्पकालिक पाठ्यक्रम/कार्यशालाएं/सेमिनार/संगोष्ठी/सम्मेलन/प्रशिक्षण कार्यक्रम

क्रमांक	संकाय सदस्य का नाम	शीर्षक	अवधि और स्थान
सेमिनार/संगोष्ठी/सम्मेलन			
1.	डॉ. अमित सकसैना	ENERGY CONCLAVE On Energy Storage - Prospects and Challenges	UPES, Dehradun 2022

क्रमांक	संकाय सदस्य का नाम	शीर्षक	अवधि और स्थान
2	डॉ. अमित सकसैना	Petroleum Resource Management System Workshop	10th, 11th, and 12th of January 2023
3	डॉ. अमित सकसैना	Workshop for Executives on Whole Value Chain Carbon Capture, Utilization, and Storage	17th - 19th October 2022
4	डॉ. शिवांजलि शर्मा	Women in Science and Technology-Fostering Innovation	29-30th September, 2022, IIT Gandhinagar
5	प्रो. आलोक कुमार सिंह	73rd International Committee for Coal and Organic Petrology Meeting and Symposium (ICCP-2022) 13th World Petro Coal Congress 2023, International Conference on Petroleum-Coal-Gas & Petroleum- Coal- Gas: Transition to a Green Planet 2023 National Seminar on Conventional, Renewable Energy Sources and Climate Change Perspective	18-25 September, 2022 15-16 February 2023, New Delhi 23 - 24 June 2023, Organized by Gondwana Geological Society, Nagpur in association with Geological Survey of India
6	डॉ. हेमन्त कुमार सिंह	1. International Conference on Human capital Development for Energy Transition (HCDET-2023) 2. Two Days International Seminar on Machine Learning and Deep Learning Application in Geosciences 3. Conventional, Renewable Energy Sources and Climate Change Perspective 4. Recent Trends in Upstream Petroleum Technology, Dibrugarh University, Assam, India (ATAL-FDP program) 5. Plastics Waste Management through Waste to Wealth Concept 6. Research Related Solutions for Faculty and Research Scholars Workshop	27th -28th February 2023 and Delhi 1st -2nd April 2023, IIT Bombay 23 - 24 June 2023, Organized by Gondwana Geological Society, Nagpur in association with Geological Survey of India

वार्षिक प्रतिवेदन 2022-2023

क्रमांक	संकाय सदस्य का नाम	शीर्षक	अवधि और स्थान
7	डॉ. शैलेश कुमार	International Conference on Human capital Development for Energy Transition (HCDET-2023)	27th -28th February 2023, Delhi
8	प्रो. सतीश कुमार सिन्हा	International Meeting on Applied Geoscience and Energy (IMAGE 22)	Houston, USA 22 Aug - 2 Sept 2022
9	प्रो. सतीश कुमार सिन्हा	Workshop on Petroleum Resource Management System	New Delhi 11-13 Jan 2023
10	प्रो. सतीश कुमार सिन्हा	IEW conference	Begaluru 6-8 Feb 2023

प्रशिक्षण कार्यक्रमों में संकाय सदस्यों ने भाग लिया

1	डॉ. हेमन्त कुमार सिंह	1. ONGC, IRS (Represent RGIPT and discuss for collaborative projects) 2. Oil India Jodhpur for industrial Training	12th – 16th Dec -2022
2	डॉ. शैलेश कुमार	Detailed course on 'Flow Assurance using OLGA Simulation'	7 May – 25 July 2022 (40 hr)

बैठक

1	डॉ. अमित सक्सेना और डॉ. शिवांजलि शर्मा	Regarding Project Submission	4-6th July 2022, OIL, Duliajan, Assam
2	प्रो. आलोक कुमार सिंह	Birbal Sahni Institute of Palaeosciences, Lucknow, Discussion on project work	17th October, 2022
3	प्रो. आलोक कुमार सिंह	R & D of Oil India Limited Related to projects discussion	8th Nov. 12th Nov. 2022, Dulliajan Assam
4	प्रो. आलोक कुमार सिंह	Birbal Sahni Institute of Palaeosciences, Lucknow, Monitoring of collaborative project work with OIL officials	31 Jan and 1st feb., 2023
5	प्रो. सतीश कुमार सिन्हा	IDT-ONGC Visit for Research Collaborations	26-27 May, 2022
6	प्रो. सतीश कुमार सिन्हा	Academy-ONGC for OCEDS discussion	22 June, 2022
7	प्रो. सतीश कुमार सिन्हा	GERMI for research collaboration	30 Sep 2022
8	प्रो. सतीश कुमार सिन्हा	OIL-Duliajan for research collaboration	11-13 Oct 2022
9	प्रो. सतीश कुमार सिन्हा	DGH for research collaboration	7 Nov 2022
10	प्रो. सतीश कुमार सिन्हा	MoU signing at DGH	23 Jan 2023
11	प्रो. सतीश कुमार सिन्हा	Visit to DGH and Cairn India	14-16 Feb 2023

अन्य संस्थानों में संकाय सदस्यों द्वारा दिए गए विशेष व्याख्यान

क्र.	संकाय सदस्य का नाम	व्याख्यान का विषय	संस्थान	दिनांक
1	डॉ. तुषार शर्मा	Utilization of CO ₂ for oilfield applications: Sequestration and EOR	IIT BHU, India	Dec-2022
2	डॉ. अमित सक्सेना	Effect of heterogeneity and injection rates on the recovery of oil from conventional sand packs: A simulation approach	Persian Gulf University	27 June 2022,

संकाय सदस्यों द्वारा विदेश दौरे

क्र. सं.	संकाय सदस्य का नाम	जिस देश का दौरा किया गया	भारत छोड़ने की तारीख	भारत लौटने की तारीख	दौरे का उद्देश्य	यहां से वित्त पोषण
1	प्रो. सतीश कुमार सिन्हा	USA	26-Aug-22	5-Sept-22	SEG Conference	SEG, USA

सम्मान और पुरस्कार

क्र. सं.	संकाय सदस्य का नाम	पुरस्कार का विवरण
1	डॉ. तुषार शर्मा	DST-SERB grant under CRG scheme
2	प्रो. आलोक कुमार सिंह	OIL Research Funding

शैक्षणिक और व्यावसायिक समाजों की फैलोशिप

क्र. सं.	संकाय सदस्य का नाम	फैलोशिप का विवरण
1	डॉ. शिवांजलि शर्मा	IICHE Lifetime Membership
2	डॉ. अमित सक्सेना	IICHE Lifetime Membership
3	डॉ. तुषार शर्मा	IICHE Lifetime Membership
4	डॉ. तुषार शर्मा	Member, Society of Petroleum Engineers: SPE number-3434114
5	डॉ. हेमन्त कुमार सिंह	Yearly member of Indian Society of Engineering Geology (ISEG)
6	डॉ. हेमन्त कुमार सिंह	Society of Petrophysicist (Lifetime Membership)
7	प्रो. आलोक कुमार सिंह	1. Full Member, International Committee for Coal & Organic Petrology 2. Executive Council Member, Coal Petrological Society of India. 3. Life member of Geological, Mining and Metallurgical Society of India 4. Life member of Indian Institute of Mineral Engineers 5. Life member of Geosciences Foundation 6. Life membership of Indian Science Congress Association 7. Member of European Association of Geoscientists and Engineers 8. Society of Petroleum Engineers
8	डॉ. शैलेश कुमार	Yearly Member, Society of Petroleum Engineers (SPE)
9	डॉ. शैलेश कुमार	Life Member, Indian Science Congress Association (ISCA)
10	प्रो. सतीश कुमार सिन्हा	IICHE Lifetime Member, SEG Member, AAPG Member, SPE Member

वार्षिक प्रतिवेदन 2022-2023

पुस्तकें, मोनोग्राफ लेखक/सह-लेखक

क्र. सं.	लेखक/सह-लेखक का नाम	शीर्षक	प्रकाशक
1	सक्सेना एन, कुमार ए, मंडल ए. 2022.,	Nano Emulsions in Enhanced Oil Recovery	Springer
3	टी. शर्मा, जे. त्रिवेदी, के.आर. चतुर्वेदी	Nanotechnology for CO ₂ Utilization in Oilfield Applications,	Elsevier. Published. 1st Edition - June 1, 2022.

डिजाइन और विकास गतिविधियां (2021-22)

नई सुविधाएं जोड़ी गईं

क्र.सं.	विवरण (बुनियादी ढांचा, उपकरण, आदि)	मूल्य (लाख रुपये में)
1	Warring Blender	8.5 Lakhs
2	Slim Tube Cum Rocking Cell Apparatus Equipment	12.5 lakhs
3	Microwave Synthesis System	11 Lakh
4	IFT, contact angle and surface tension for carbonated water	11.2 Lakh
5	Ultrasonic Pulse Velocity Tester	9.3 lakhs
6	Point load tester along with Brazilian Tensile Strength	4 Lakhs
7	Uniaxial Compressive Strength tester	6.7 Lakhs
8	Rock Physics Lab (UPV transducers, Muffle Furnace, High performance computing workstation)	10 lakhs
9	Proximate Analyzer, LECO	32 Lakhs

पेटेंट दाखिल किया गया

क्र.सं.	संकाय सदस्य का नाम	पेटेंट का शीर्षक
1	डॉ. शिवांजलि शर्मा	Albizia Amara as an eco-friendly additive for drilling fluid and enhanced oil recovery
2	डॉ. तुषार शर्मा	A System for Hydrogen Storage in Heterogeneous Formations
3	डॉ. तुषार शर्मा	A Method for Synthesizing Alkali Treated Polymeric Colloidal Suspension of Silica Nanoparticles

अनुसंधान एवं विकास

प्रायोजित अनुसंधान परियोजनाएँ

क्र. सं.	शीर्षक	अवधि	फंडिंग एजेंसी	राशि (लाख रुपये में)	समन्वयक
1	Study of Carbon dioxide storage and utilization for enhanced oil recovery in Indian oil fields using polymer-nanoparticle assisted carbonated water flooding	2022-2025	SERB-DST	48.64 Lakhs	Dr. Shivanjali Sharma
2	Mechanisms of Carbon Storage for Enhanced Oil Recovery and Net-Zero Scheme in Oilfields of Cambay Basin	2022-2025	SERB-DST	25 Lakhs	Dr. Tushar Sharma

क्र. सं.	शीर्षक	अवधि	फंडिंग एजेंसी	राशि (लाख रुपये में)	समन्वयक
3	Geoscientific Data Analysis of Ganga-Punjab and Vindhyan Basins	2023-2024	DGH	11.66 Lakhs	Dr. Satish kumar Sinha Dr. Hemant kumar Singh Dr. Piyush Sarkar
4	Development and Evaluation of Nanocomposite-Pour Point Depressants (N-PPDs) to Improve the Flow Behaviour of Indian Waxy Crude Oils for Pipeline	2022-2024	EEQ, DST-SERB	INR 24.68 Lakh	Dr. Shailesh Kumar

औद्योगिक परामर्श परियोजनाएँ

क्र. सं.	संकाय सदस्य का नाम	शीर्षक	उद्योग	राशि (लाख रुपये में)
1	डॉ. तुषार शर्मा एवं	Single-Step Silica Nanofluids as Shale Stabilizing Additive for High Pressure-High Temperature Cementation in Indian Field.	IDT-ONGC	28.06 Lakhs
2	डॉ. शैलेश कुमार	Development of Suitable Drag Reducing Agents for Transportation of Asphaltene crude oils through pipelines	HPCL-Mittal Energy Limited	10.92 Lakhs
3	डॉ. शिवांजलि शर्मा और डॉ. अमित सक्सेना	Organic Petrography, Biostratigraphy, and Palynology Study of Shales of Well Sadiya-1 of Oil India Limited	OIL	19.79 Lakhs
4	प्रो. आलोक कुमार सिंह	3D Geomechanical model development of Balimara Field	OIL	18.43 Lakhs

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1. A. Pandey, H. Kesarwani, A. Saxena, R. Azin, S. Sharma, Effect of heterogeneity and injection rates on the recovery of oil from conventional sand packs: A simulation approach, Pet. Res. (2022) 0–6. <https://doi.org/10.1016/j.ptlrs.2022.05.005>.
2. A.P. Pandey, V. Roy, H. Kesarwani, G. Mittal, S. Sharma, A. Saxena, OTC-31439-MS Effect of Silicon Carbide on the Surface Tension and Adsorption of SDS on the Sandstone Formation, (2022). <https://doi.org/10.4043/31439-MS>.
3. H. Kesarwani, F. Khan, A. Tandon, R. Azin, S. Osfour, S. Sharma, Performance Improvement of the Surfactant Polymer Flooding Using Bio Synthesized Calcium Carbonate Nanoparticles: An Experimental Approach, Arab. J. Sci. Eng. (2022) 1–18. <https://doi.org/10.1007/S13369-022-06571-5>.
4. H. Kesarwani, M. Belal Haider, R. Kumar, S. Sharma, Performance evaluation of deep eutectic

- solvent for surfactant polymer flooding, J. Mol. Liq. 362 (2022) 119734. <https://doi.org/10.1016/J.MOLLIQ.2022.119734>.
5. A. Pandey, V. Roy, H. Kesarwani, S. Sharma, A. Saxena, Evaluation of Silicon Carbide Nanoparticles as an Additive to Minimize Surfactant Loss during Chemical Flooding, ChemistrySelect. 7 (2022). <https://doi.org/10.1002/slct.202104294>.
6. H. Kesarwani, A. Mandal, S. Sharma, Enhanced Oil Recovery from the Methyl Ester Sulfonate Derived from Flaxseed Oil : Interfacial, Adsorption and Rock Wetting Characteristics, ChemistrySelect. 7 (2022). <https://doi.org/10.1002/slct.202104593>.
7. H. Kesarwani, V. Srivastava, A. Mandal, S. Sharma, A. Choubey Kumar, Application of α -MnO₂ nanoparticles for residual oil mobilization through surfactant polymer flooding, Environ. Sci. Pollut. Res. (2022). <https://doi.org/10.1007/s11356-022-190090>.
8. F. Khan, A. Tandon, V. Dhar, M. Beg, A. Saxena, S. Sharma, Cement Slurry Design for High-Pressure, High-Temperature Wellbores Using Polymer Nanocomposite: A Laboratory Scale Study Based on the Compressive Strength and Fluid Loss, Energy and Fuels. 36 (2022) 6820–6830. <https://doi.org/10.1021/acs.energyfuels.2c00828>.
9. V. Patel, J. Trivedi, T. Sharma. Influence of hydrophobic association in the aqueous media on the rheology and polymer conformation of associative polymers. Polymer Bulletin. 1-21 (2022) . DOI: 10.1007/s00289-022-04484-9
10. K.R. Chaturvedi, R. Narukulla, T. Sharma. Polymeric graphene oxide dispersions for improved carbon capture and utilization in oil recovery. Petroleum Science and Technology. 1-15 (2022). DOI: 10.1080/10916466.2022.2096070.
11. A. Pandey, K.R. Chaturvedi, T. Sharma. Evaluation of natural polymer for mobility control in carbon utilization and geo-storage applications. Petroleum Science and Technology. 1-15 (2022). DOI: 10.1080/10916466.2022.2093366.
12. K.R. Chaturvedi, S. Bajpai, J. Trivedi, T. Sharma. Air foams for mobility control and subsurface storage of hydrogen in porous media: An experimental study. Energy & Fuels. 36 (2022). 5036. <https://doi.org/10.1021/acs.energyfuels.1c04246>.
13. N. Lashari, T. Ganat, S. Kalaam, T.A. Chandio, T. Sharma, S. Qureshi. Impact of a novel HPAM/GO-SiO₂ nanocomposite on interfacial tension: Application for enhanced oil recovery. Petroleum Science and Technology. 40 (2022). 290-309. <https://doi.org/10.1080/10916466.2021.1993915>
14. N. A. A. M. Fauzi, T. Ganat, K. A. Elraies, S. Zainal, N. Lashari, W. Saphanuchart, T. Sharma. Polymeric flocculants: agglomerate investigation of fines and sand particles at multiphase flow. International J. Oil, Gas and Coal Technology. (2022). DOI: 10.1504/IJOGCT.2022.10046892.
15. D.A. Otchere, T. Ganat, V. Nta, E.T. Brantson, T. Sharma. Data analytics and Bayesian optimised extreme gradient boosting approach to estimate cut-offs from wireline logs for net reservoir and pay classification. Applied Soft Computing. 120 (2022). 108680. <https://doi.org/10.1016/j.asoc.2022.108680>.
16. A. Fauzi, S. Zainal, W. Saphanuchart, N. Lashari, T. Sharma, T. Ganat. Polymeric flocculants: Agglomerate investigation of fines and sand particles at multiphase flow. Int. J. of Oil, Gas and Coal Technology. (2022). DOI: 10.1504/IJOGCT.2022.126827
17. R. Narukulla, U. Ojha, T. Sharma. Facile one pot green synthesis of -NH₂ surface functionalized graphene-polymer nanocomposite: subsequent utilization as stabilizer in Pickering emulsions. Colloids and Surfaces A: Physicochemical and Engineering Aspects. 641(2022). 128594. <https://doi.org/10.1016/j.colsurfa.2022.128594>.
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19. A. Debnath, A. Pandey, K.R. Chaturvedi, T. Sharma. Evaluation of performance spectra of mono and divalent low saline brine injection in sandy-carbonates for mobilization of crude oil. Colloids and Surfaces A: Physicochemical and Engineering Aspects. 640 (2022). 128506. <https://doi.org/10.1016/j.colsurfa.2022.128506>
20. T. Sharma, A. Joshi, A. Jain, K. R. Chaturvedi. Enhanced oil recovery and CO₂ sequestration potential of Bi-polymer Polyvinylpyrrolidone-Polyvinyl alcohol. Journal of Petroleum Science and Engineering. 211(2022). 110167. <https://doi.org/10.1016/j.petrol.2022.110167>
21. K. R. Chaturvedi, T. Sharma. Modified smart water flooding for promoting carbon dioxide utilization in

- shale enriched heterogeneous sandstone for oil recovery and storage prospects. *Environmental Science and Pollution Research*. (2022) <https://doi.org/10.1007/s11356-022-18851-6>.
22. R. Narukulla, K.R. Chaturvedi, U. Ojha, T. Sharma. Carbon dioxide capturing evaluation of polyacryloyl hydrazide solutions via rheological analysis for carbon utilization applications. *Energy*. 241 (2022). 122929. <https://doi.org/10.1016/j.energy.2021.122929>
 23. Agrawal, Romy; Malik, Aashish; Samuel, Robello; Saxena, Amit; Real-time prediction of Litho-facies from drilling data using an Artificial Neural Network: A comparative field data study with optimizing algorithms, "Journal of Energy Resources Technology", 144, 4, 43003, 2022, American Society of Mechanical Engineers.
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 25. Roy, Vishnu; Gupta, Ankur; Agrawal, Romy; Kumar, Nitesh; Saxena, Amit; "Augmenting and eliminating the use of sonic logs using artificial intelligence: A comparative evaluation", *Geophysical Prospecting*, <https://doi.org/10.1111/1365-2478.13213>, 2022, Wiley.
 26. Agrawal, Romy; Malik, Aashish; Samuel, Robello; Saxena, Amit; "Comparative study of homogeneous ensemble methods with conventional ML classifiers in litho-facies detection using real-time drilling data", *Arabian Journal of Geosciences*, 15 (23), 1732, 2022 Springer International Publishing Cham
 27. Singh, A.K. et al. 2022: Geochemistry and organic petrology of the bituminite shales from the Kapurdi mine, Rajasthan of NW India: Implications for waxy oil generation potential. *Journal of Petroleum Exploration and Production Technology*, Vol. 13 pp. 505–521 <https://doi.org/10.1007/s13202-022-01597-9>
 28. Alok Kumar, Mohammed Hail Hakimi, Alok K. Singh, Wan Hasiah Abdullah, Nor Syazwani Zainal Abidin, Afikah Rahim, Khairul Azlan Mustapha, and Nura Abdulmumini Yelwa, 2022: Geochemical and Petrological Characterization of the Early Eocene Carbonaceous Shales: Implications for Oil and Gas Exploration in the Barmer Basin, Northwest India. *ACS Omega* 2022, 7, 42960–42974, <http://pubs.acs.org/journal/acsodf>
 29. Singh, A.K. et al., 2022: Tertiary Himalayan Coal-bearing sequences of India: A reappraisal of their Evolutionary consequences. *Geological Society of India*. Vol. 98, pp. 1697-1707, <https://doi.org/10.1007/s12594-022-2240-6>
 30. Nath, M., Kumar A. and Singh, A.K. 2022: Assessment of hydrocarbon generative potential of Late Paleocene coals from East Khasi Hills, Meghalaya, North-East India. *Petroleum Science and Technology*, Volume 40, Issue 18, pp.2238-2250, <https://doi.org/10.1080/10916466.2022.2039185>
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 33. Gang Han, Chuanqing Zhang, H.K. Singh, Shuling Huang, Hui Zhou, Yang Gao. (2022). A comprehensive investigation of engineering geological characteristics of interlayer shear weakness zones embedded within Baihetan hydropower station. *Tunnelling and Underground Space Technology*, 104891, 132.
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 35. Gang Han, Chuanqing Zhang, H.K. Singh, Chen Guan, Huang Shuling, Zhou Hui, Zhang Yuting (2023). Characterizing the real and complex occurrence states of large-scale interlayer shear weakness zones using the conditional random field theory. *Journal of Rock Mechanics and Geotechnical Engineering*, <https://doi.org/10.1016/j.jrmge.2023.02.032>. (Article in Press).
 38. A Aas, and S K Sinha, 2023, A novel weight-drop seismic energy source for subsurface characterization. *Journal of Applied Geophysics*, 208, 104887. <https://doi.org/10.1016/j.jappgeo.2022.104887>

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2. Sarkar, P., Ghosh, R., Singh, K.H., Singh, T. N., 2021. Pore Characteristics of Gondwana Shale of Eastern India. Journal of Geological Society of India. 97, 363–374. Doi: 10.1007/s12594-021-1694-2
3. Maurya, S. P., Sarkar, P., 2016. Comparison of Post stack Seismic Inversion Methods: A case study from Blackfoot Field, Canada. International Journal of Scientific and Engineering Research. 7, 1091-1101

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2. Pandey, Anurag Pandey; Roy, Vishnu; Kesarwani, Himanshu; Mittal, Govind; Sharma, Shivanjali; Saxena, Amit; “Effect of Silicon Carbide on the Surface Tension and Adsorption of SDS on the Sandstone Formation”, Offshore Technology Conference Asia, 2022, OnePetro.
3. Tandon, Apoorv; Khan, Fahad; Shukla, Raman; Saxena, Amit; Sharma, Shivanjali; Biswas, Koushik Guha; “3-D Micromodel for Visualization & Experimental Analysis of Flow Behavior, Surface Tension and Polymer Concentration on Enhanced Oil Recovery”, Offshore Technology Conference Asia, 2022, OnePetro.
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7. Singh, D., Singh, H.K. (2022) A comprehensive review on the recent development of non-destructive empirical techniques in estimating geo- mechanical properties of shales. International Conference on Engineering Geology and Geotechniques for safe and sustainable infrastructures (EGCON-2022), Kolkata.
8. Kumar, N., Singh, H.K. (2022) Evaluation of Ulusay Block Punch Index Model Efficacy in Predicting Uniaxial Compressive Strength of Anisotropic Rocks. International Conference on Engineering Geology and Geotechniques for safe and sustainable infrastructures (EGCON-2022). Kolkata.
9. Singh, H.K., Ansari, T.A., Ram, B.K. (2022). Laboratory Investigation of Fracture Toughness of Deccan Basalt Using SCB Specimens and AE Characteristics. International Conference on Recent Advances in Geotechnics (EGCON-2021).
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11. A Aas, and S K Sinha, (2022), Utilization of Geotechnical Studies and Electrical Resistivity Tomography for Soil Characterization and Foundation Engineering. Abstract Proceedings of the International Conference on Engineering Geology and Geotechniques for safe and Sustainable Infrastructures, Kolkata, India, November 16-17, ISBN No.: 978-93-5737-702-7, 112
12. A Aas, and S K Sinha, (2022), Geoenviromental investigation using Integrated Geophysical Methods: An Implication to geotechnical engineering. Abstract Proceedings of the International Conference on Engineering Geology and Geotechniques for safe and Sustainable Infrastructures, Kolkata, India, November 16-17, ISBN No.: 978-93-5737-702-7, 56-57

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 5. Kumar, V., and Sinha, S.K., 2022, Machine learning approach for vertical permeability prediction and permeability anisotropy of Hugin sandstone formation: Data driven model (Volve field), 5th South Asian Geosciences Conference and Exhibition, GeoIndia 2022
 6. Aas, A., and Sinha, S.K., 2022, Shallow Sub-surface Characterization Using Integrated Geophysical Methods: An Implication to Seismic Data Processing, 5th South Asian Geosciences Conference and Exhibition, GeoIndia 2022

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1. Energy recovery from simulated clayey gas hydrate reservoir using depressurization by constant rate gas release, thermal stimulation and their combinations; J.Applied

Energy; Volume 225, 1 September 2018, Pages 755-768; No.of Citations:110

2. Stability and rheological properties of nanofluids stabilized by SiO₂ nanoparticles and SiO₂-TiO₂ nanocomposites for oilfield applications; J.Colloids and Surface A: Physiochemical and Engineering Aspects; Volume 539, 2018, Pages 171-183; No.of Citations:106
3. Effect of zinc titanate nanoparticles on rheological and filtration properties of water based drilling fluids; Journal of Petroleum Science and Engineering; Volume 170, November 2018, Pages 844-857; No. of Citations: 78
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5. Impact of anionic surfactant on stability, viscoelastic moduli, and oil recovery of silica nanofluid in saline environment; Volume 195, December 2020, 107634; No.of Citations: 62

अन्य गतिविधियाँ

विभाग/केन्द्र द्वारा अंतर्राष्ट्रीय सहयोग/उपलब्धियाँ

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4. Centre of Advanced Study in Geology, Institute of Science, Banaras Hindu University, Varanasi-221005, India
5. Chemical Engineering Department, IIT Delhi
6. University of Burdwan, Kolkata
7. Kumaon University, Nainital
8. University of Malaya, 50603 Kuala Lumpur, Malaysia



Ultrasonic Cement Analyzer



Proximate Analyzer, LECO

इलेक्ट्रॉनिक्स अभियांत्रिकी विभाग

स्थापना का वर्ष: 2020

विभागाध्यक्ष: डॉ. उमाकांत धर द्विवेदी, सह आचार्य, प्रभावी 11 जून 2020

विभाग का संक्षिप्त परिचय

इलेक्ट्रिकल और इलेक्ट्रॉनिक्स अभियांत्रिकी विभाग इलेक्ट्रॉनिक्स इंजीनियरिंग और इलेक्ट्रिकल इंजीनियरिंग (ईवी में प्रमुख) में स्नातक (बी.टेक) प्रदान करता है। स्नातक अध्ययन के लिए, इलेक्ट्रिकल और इलेक्ट्रॉनिक्स के विभिन्न क्षेत्रों के व्यापक ज्ञान के लिए माइक्रोइलेक्ट्रॉनिक्स, डिजिटल तकनीक और उपकरण, संचार प्रणाली, इलेक्ट्रिकल मशीनें, पावर इलेक्ट्रॉनिक्स, इलेक्ट्रिक ड्राइव, इलेक्ट्रिक वाहन, नियंत्रण प्रणाली और पावर सिस्टम से संबंधित विषयों को समायोजित किया जाता है। पाठ्यक्रम में पेश किए गए विषयों को इस तरह से डिजाइन किया गया है कि वे मौलिक अवधारणाओं के साथ-साथ औद्योगिक अनुप्रयोगों के लिए समर्पित लगभग सभी महत्वपूर्ण विषयों को कवर करते हैं। विभाग इलेक्ट्रिकल और इलेक्ट्रॉनिक्स इंजीनियरिंग के उभरते क्षेत्रों में डॉक्टरेट कार्यक्रम भी प्रदान करता है। इसके साथ ही, छात्रों को उद्योग के लिए तैयार करने के लिए एंबेडेड सिस्टम, एआई/एमएल और सिग्नल प्रोसेसिंग एप्लिकेशन इंटरनेट ऑफ थिंग्स (आईओटी), रिन्यूएबल एनर्जी इंटीग्रेशन और एडवांस्ड मोटर कंट्रोल पर उन्नत पाठ्यक्रम भी पाठ्यक्रम में शामिल किए गए हैं। विभाग के पास अनुभवी और योग्य संकाय हैं। संकाय सदस्य अनुसंधान गतिविधियों में सक्रिय रूप से शामिल हैं। विभाग के संकाय विशेषज्ञता के प्रमुख क्षेत्रों में पावर इलेक्ट्रॉनिक्स, इलेक्ट्रिकल ड्राइव, नवीकरणीय ऊर्जा, संचार, एंटीना, माइक्रोवेव, माइक्रोइलेक्ट्रॉनिक्स, एमईएमएस, ऑप्टो-इलेक्ट्रॉनिक डिवाइस मशीन लर्निंग और सिग्नल प्रोसेसिंग एप्लिकेशन शामिल हैं। विभाग उद्योग-उन्मुख अनुप्रयोगों के लिए अंतःविषय अनुसंधान को सक्रिय रूप से शामिल करता है और प्रोत्साहित करता है।

अनुसंधान के प्रमुख क्षेत्र

1. इलेक्ट्रिक वाहन प्रौद्योगिकी
2. एआई, एमएल और सिग्नल प्रोसेसिंग
3. हरित ऊर्जा और स्मार्ट ग्रिड
4. संचार और IoT
5. पावर इलेक्ट्रॉनिक्स और उन्नत नियंत्रण
6. माइक्रोइलेक्ट्रॉनिक्स आईसी डिजाइन

आधारभूत संरचना

क्र.सं.	विवरण	संख्या
1.	प्रयोगशाला की संख्या	5
2.	विभाग/केंद्र/केंद्र में छात्रों के लिए उपलब्ध कंप्यूटरों की संख्या	26

नए पाठ्यक्रम शुरू किए गए

इलेक्ट्रिकल इंजीनियरिंग में बीटेक (ई-वाहन में प्रमुख)

क्र. सं.	पाठ्यक्रम कोड	पाठ्यक्रम का नाम	पाठ्यक्रम क्रेडिट
1	EEV211	Electrical Machine – I	11
2	EEV221	Fundamentals of Power Electronics	9
3	EEV351	Fundamentals of Electric Vehicles	9
4	EEV311	Electrical Machine – II	11
5	EEV321	Static Power Converters and Applications	9
6	EEV301	Vehicular Communication Systems and Networks	9
7	EEV341	Power Systems – I	9
8	EEV312	Electric Drives	9
9	EEV441	Power System Protection and Switchgear	9
10	EEV451	EV Batteries and Battery Management System	9
11	EEV443	Power Systems – II	9

छात्र संख्या

क्र.सं.	कार्यक्रम	I वर्ष	II वर्ष	III वर्ष	IV वर्ष
1.	बी.टेक	81	19	31	
2.	पीएच.डी. (संस्थान फैलोशिप के तहत)	1	6	0	1
3.	पीएच.डी. (बाहरी उम्मीदवार - अंशकालिक)	4	1	1	

छात्रों/विद्वानों के नाम जिन्होंने विदेश में या भारत में सम्मेलनों/कार्यशालाओं/सेमिनारों और संगोष्ठियों में भाग लिया

क्र. सं.	छात्र का नाम	रोल नंबर	सम्मेलन/संगोष्ठी/संगोष्ठी/कार्यशाला	दिनांक एवं स्थान	वित्तीय सहायता
भारत					
1	रचना वैश्य	PEE19001	Workshop on Time-Frequency signal processing and applications	27-29 January, 2023	Institute
2	तान्या वर्मा	21EE0003	Application of Machine Learning in Audio Signal Processing	September- IIITM Gwalior	SERB
			VRITIKA internship on The Road towards Next Generation of Wireless Communication"	December- IIIT Kota	SERB
			Workshop on Advances in Optical Communications	July- IIT Madras	RSG

वार्षिक प्रतिवेदन 2022-2023

क्र. सं.	छात्र का नाम	रोल नंबर	सम्मेलन/संगोष्ठी/संगोष्ठी/कार्यशाला	दिनांक एवं स्थान	वित्तीय सहायता
3	अमित कुमार	21EE0101	Vritika-2022 Internship "Road Towards Next Generation Wireless Communications"	Nov- to Dec- IIIT Kota Jaipur	SERB
4	स्तुति श्रीवास	21EE0103	International e-conference on Textile for Advanced Technologies (Textile Tech-2022). 2023 International Conference on Device Intelligence, Computing and Communication Technologies, (DICCT). Functional Textile and clothing conference 2023	Online	Self-financed

संस्थान के बाहर सम्मान एवं पुरस्कार प्राप्त करने वाले विद्यार्थियों/विद्वानों के नाम

क्र. सं.	छात्र का नाम	रोल नंबर	पुरस्कार का नाम	तिथि और स्थान	पुरस्कार दिया गया
1	अशर अली	20EC3011	2nd	March 2023, IIT Bombay	e-yantra
2	ध्रुव जोशी	20EC3018	2nd	March 2023, IIT Bombay	e-yantra
3	सौरभ फुलपगार	20EC3031	2nd	March 2023, IIT Bombay	e-yantra
4	शिवम शर्मा	20EC3035	2nd	March 2023, IIT Bombay	e-yantra
5	जोवनप्रीत सिंह	20EC3023	2nd	February 2023, IIT Delhi	Functional Textile and clothing conference
6	राहुल राज	22EV3022	2nd	March 2023, IIT BHU	Technex
7	सोहम जाधव	22EV3009	2nd	March 2023, IIT BHU	Technex
8	रेहदम	22EV3023	2nd	March 2023, IIT BHU	Technex
9	सिमरन कुमारी	22EV3028	2nd	March 2023, IIT BHU	Technex
10	सुभ्रदीप चक्रवर्ती	20EC3040	Excellent category	IIT Bombay	FOSSEE
11	अक्षत राज श्रीवास्तव	20EC3004	Runner up	2022 Kanjirapally, Kerala	Smart India Hackathon
12	बसंत कुमार	20EC3015	Runner up	2022 Kanjirapally, Kerala	Smart India Hackathon
13	ध्रुव सकसैना	20EC3019	Runner up	2022 Kanjirapally, Kerala	Smart India Hackathon

क्र. सं.	छात्र का नाम	रोल नंबर	पुरस्कार का नाम	तिथि और स्थान	पुरस्कार दिया गया
14	सौरभ फुलपगार	20CE3031	Runner up	2022 Kanjirapally, Kerala	Smart India Hackathon
15	शामल संतोषराव देशमुख	20EC3030	Runner up	2022 Kanjirapally, Kerala	Smart India Hackathon
16	ज्ञान कश्यप	20CS3020	Runner up	2022 Kanjirapally, Kerala	Smart India Hackathon

संकाय और उनकी गतिविधि

संकाय और उनकी विशेषज्ञता के क्षेत्र

क्र. सं.	नाम, योग्यताएं, कर्मचारी संख्या	पीएचडी डिग्री प्रदान करने की तिथि	विशेषज्ञता के प्रमुख क्षेत्र (अधिकतम 3 क्षेत्र)
सह आचार्य			
1	डॉ. उमाकान्त धर द्विवेदी	2009 from IIT Kanpur	Renewable Energy Integration. Power Electronics & Drives. AI/ML & Signal Processing Application in Automation and Energy Sector
सहायक आचार्य			
1	डॉ. अभिषेक कुमार सिंह	2020 from IIT BHU, Varanasi	Microelectronics & IC Design
2	डॉ. सजल अग्रवाल	2019 from MNIT, Allahabad	Nano fabrication/optical sensor/artificial materials/IoT
3	डॉ. शिवांशु श्रीवास्तव	2017 from IIT Guwahati	Cognitive Radio, Wireless Systems Communication Systems
4	डॉ. अमरीश दुबे	2018 from IIT Kanpur	Flexible Electronics/Green Energy
5	डॉ. विजय कुमार सिंह	25-03-2020	Power Electronics, Power converter control
6	डॉ. अंकुर पांडे	15.02.2022	IoT, Wireless Communication, Smart Healthcare
7	डॉ. सप्तर्षि घोष	13.11.2021	Communications Security/ Smart Grid

तकनीकी और गैर-शिक्षण कर्मचारी

क्र. सं.	नाम	पदनाम, कर्मचारी संख्या	विभाग में नियुक्ति की तिथि
1.	श्री ऋषभ मौर्य	तकनीकी अधीक्षक (ग्रेड 1) (अनुबंध पर)	12 th August 2022
2.	श्री राजीव नयन पांडे	तकनीशियन (ग्रेड 1) (अनुबंध पर)	24 th April 2022
3.	श्री रत्नेश चन्द्र गुप्ता	तकनीशियन (ग्रेड 1) (अनुबंध पर)	6 th June 2022
4.	श्री गौरव कुमार	परिचारक (अनुबंध पर)	13 th June 2022

शैक्षणिक संस्थानों और सार्वजनिक क्षेत्र के उपक्रमों में संकाय सदस्यों द्वारा भाग लेने वाले अल्पकालिक पाठ्यक्रम/कार्यशालाएं/सेमिनार/संगोष्ठी/सम्मेलन/प्रशिक्षण कार्यक्रम

वार्षिक प्रतिवेदन 2022-2023

क्र. सं.	संकाय सदस्य का नाम	शीर्षक	अवधि और स्थान
संमेलन/संगोष्ठी/सम्मेलन			
1	डॉ. सजल अग्रवाल	ICT Tools for Teaching and Research	December 5-17, 2022, and PDPM Indian Institute of Information Technology, Design and Manufacturing, Jabalpur, India

अन्य संस्थानों में संकाय सदस्यों द्वारा दिए गए विशेष व्याख्यान

क्र.सं.	संकाय सदस्य का नाम	व्याख्यान का विषय	संस्थान	दिनांक
1	डॉ. सजल अग्रवाल	Introduction to LaTeX and Manuscript writing using LaTeX- Hands-on	University of Allahabad	09th April 2022
2	डॉ. सजल अग्रवाल	Optical interconnects in electro optics platform	National Institute of Technology Uttarakhand	29th September 2022
3	डॉ. अंकुर पांडे	AI enabled IoT for Health care and medical electronics	IIT, Patna	20th January, 2023

सम्मान और पुरस्कार

क्र.सं.	संकाय सदस्य का नाम	पुरस्कार का विवरण
1	डॉ. सजल अग्रवाल	Elected as Senior Member IEEE

पुस्तकें, मोनोग्राफ लेखक/सह-लेखक

क्र. सं.	लेखक/सह-लेखक का नाम	शीर्षक	प्रकाशक
1.	ऋतु पांडे, मुकेश कुमार सिन्हा, अमरीश दुबे	Macrophyte and wetland plant fibres	Woodhead Publishing 2023
2.	ऋतु पांडे, अमरीश दुबे, मुकेश कुमार सिन्हा	Lotus fibre drawing and characterization	Woodhead Publishing 2023
3.	रितु पांडे, रागिनी दुबे, पिंटू पंडित, सुरचि पांडे, मुकेश कुमार सिन्हा, अमरीश दुबे	Armours: Ancient Metallic Textiles	John Wiley & Sons, Inc. 2023
4	सजल अग्रवाल, वार्ड. के. प्रजापति	Transition Metal Dichalcogenide Based Surface Plasmon Resonance for Bio-Sensing (Book Chapter)	CRC Press, Tylor and Francis 2023
5	डॉ. अंकुर पांडे	RSS-based Smart Device Localization using Few Shots Learning in IoT Networks (Chapter in Book)	CRC Press, Taylor and Francis Group, USA
6	गार्गी श्रीवास्तव और सजल अग्रवाल	Terahertz Imaging: Timeline and Future Prospects (Book Chapter)	TDCS-2022, Springer Sep 2022

पत्रिकाओं के संपादकीय बोर्ड

क्र. सं.	संकाय सदस्य का नाम	पद (संपादक/सदस्य)	जर्नल का नाम
1	डॉ. विजय कुमार सिंह	Guest Editor	Electronics (ISSN 2079-9292) by MDPI

डिजाइन और विकास गतिविधियाँ

नई सुविधाएं जोड़ी गईं

क्र. सं.	विवरण (बुनियादी ढांचा, उपकरण आदि)	मूल्य (लाख रुपये में)
1	एफपीजीए डिजाइन सॉफ्टवेयर	4.90
2	डीसी बिजली की आपूर्ति	4.90
3	डिजिटल स्टोरेज ऑसिलोस्कोप	17.12
4	डिजिटल ट्रेनर किट	1.74
5	डीएसपी आधारित रैपिड कंट्रोल प्रोटोटाइपिंग (डीएसपी किट)	15.48
6	उच्च प्रदर्शन मल्टीकोर एफपीजीए आधारित हार्डवेयर-इन-लूप (एचआईएल) रीयल-टाइम डिजिटल सिमुलेटर बॉक्स और मल्टी आई/ओ डेटा अधिग्रहण प्रणाली	24.89
7	एनकोडर, सेंसर एनालॉग/डिजिटल कन्वर्टर, पावर कन्वर्टर और कंट्रोलर बोर्ड के साथ उच्च प्रदर्शन मल्टीफ्रेज ड्राइव सिस्टम	15.00
8	हाथ से पकड़ने योग्य डिजिटल मल्टीमीटर	0.60
9	डिजाइन सॉफ्टवेयर ताल	8.29
10	डिजाइन सॉफ्टवेयर OrCAD	7.29
11	एलसीआर मीटर	8.27
12	एएमडी किट	0.47
13	माइक्रोकंट्रोलर किट 8051	0.49
14	माइक्रोप्रोसेसर किट 8085	0.49
15	डीएसए मॉड्यूल	0.24
16	एडीसी मॉड्यूल	0.24
17	प्रदर्शन मॉड्यूल	0.24
18	एफएमडी किट	0.48
19	चरण मॉड्यूलेशन किट	0.49
20	टीएलसी मॉड्यूल	0.24
21	स्टेपर मोटर नियंत्रक मॉड्यूल	0.24
22	स्टेपर मोटर	0.21
23	मिश्रित संकेत आस्टसीलस्कॉप	5.49
24	COMSOL मल्टीफिजिक्स सॉफ्टवेयर	3.80

पेटेंट दाखिल किया गया

क्र.सं.	संकाय सदस्य का नाम	पेटेंट का शीर्षक
1	डॉ. अंकुर पांडे	System for Geospatial Navigation for Smart Parking and Dustbin Management free of GPS. 202231069042, Nov 30, 2022 (status: Filed)

अनुसंधान और विकास

प्रायोजित अनुसंधान परियोजनाएँ

क्र. सं.	शीर्षक	अवधि	फंडिंग एजेंसी	राशि (लाख रुपये में)	समन्वयक
1	A Proposed Colour Less Fully Transparent & Flexible Organic	2 years 31st Oct	Science and Engg.	28.083 Lakhs	Dr. Abhishek Kumar Singh
2	Energy mitigation for rural people	2021-2023	RGIFT Seed grant	18	
3	Designing and Realization of Optical Fiber Sensor for Adulteration and Health Monitoring of Oil and Gas Infrastructure	2 years	RGIFT Seed grant	10	

औद्योगिक परामर्श परियोजनाएँ

क्र. सं.	संकाय सदस्य का नाम	शीर्षक	उद्योग	राशि (लाख रुपये में)
1	डॉ अभिषेक कुमार सिंह	ELT Antenna Testing	Hindustan Aeronautics Limited, Korwa	4.13 Lakhs

एमओयू के तहत अन्य विश्वविद्यालयों के साथ संकाय सदस्यों की भागीदारी

अनुसंधान प्रकाशन

क्र.सं.		सं.
1.	अंतर्राष्ट्रीय पत्रिकाओं में प्रकाशित पत्रों की कुल संख्या	11
2.	अंतर्राष्ट्रीय सम्मेलनों में प्रस्तुत पत्रों की कुल संख्या	06

Refereed International Journals

1. Sajal Agarwal, Gargi Srivastava, Y.K. Prajapati, "Dual band Vis-IR absorber using bismuth based helical metamaterial surface" Optical and Quantum Electronics, Springer, vol. 54, pp. 772, 2022.
2. Aqsa Ayub, Muhammad Rizwan, Shivanshu Shrivastava, Adeel Anjum, Pelin Angin, and Yignit Server, " Securely Offloading Computation to the Edge with the Tangle Cache," in Journal of Wireless Mobile Networks, Ubiquitous Computing, and Dependable Applications (JoWUA) (South Korea), vol. 13, Iss. 4, pp. 40-60, Nov. 2022.
3. H. Dahiya, A. Agrawal, G. D. Sharma, and Abhishek Kumar Singh, "Organic bulk heterojunction enabled with nano capsules of hydrate vanadium pentoxide layer for high responsivity self-powered photodetector," Journal of Semiconductors, vol. 43, no. 9, p. 092302, 2022, DOI: 10.1088/1674-4926/43/9/092302
4. R Pandey, N Tiwari, A Dubey, S Jose, N Kambo, S Joshi, VK Chauhan, "A Comparative Study of Phenotypic Variability and Physico-Mechanical Properties of Dual-Purpose Flax Fiber Varieties in India," Journal of Natural Fibers, 19 (17), 15680-15689.
5. R Pandey, GK Prasad, A Dubey, A Arputhraj, ASM Raja, MK Sinha, "Tellicherry Bark Microfiber: Characterization and Processing," Journal of Natural Fibers 19 (16), 13288-13299.
6. R. Suthar, A. T, H. Dahiya, Abhishek Kumar Singh, G. D. Sharma, and S. Karak, "Role of exciton lifetime, energetic offsets, and disorder in voltage loss of bulk heterojunction organic solar cells," ACS Applied Materials & Interfaces, vol. 15, no. 2, pp. 3214-3223, 2023, DOI: 10.1021/acsami.2c18199
7. S. Kumar, V. Gautam, Abhishek Kumar Singh, G. K. Maurya, S. Singh, and P. Kumar, "Liquid phase exfoliated 2-D MoS₂ based broadband heterojunction low-powered photosensor", IEEE Transactions on Electron Devices, pp. 1-7, 2023, DOI: 10.1109/TED.2023.3239041
8. Tanya Verma, Shivanshu Shrivastava, Umakant Dhar Dwivedi, Dwarkadas Prahladas Kothari, "Transfer

learning for resource allotment in dynamic hybrid WiFi/LiFi communication systems", Elsevier Optics Communications, Volume 546, July 2023, 129761, ISSN 0030-4018

9. Shivanshu Shrivastava, Sunju John, A. Rajesh, P. K. Bora, "Collision Penalty-based Defense against Collusion Attacks in Cognitive Radio enabled Smart Devices" accepted for publication in IEEE Transactions on Consumer Electronics, 2023.
10. Vijay Kumar Singh, and R.N. Tripathi, "An FPGA Hardware-in-the-Loop Approach for Comprehensive Analysis and Development of Grid-Connected VSI System", Energies 2023, 16(2), 759. (<https://doi.org/10.3390/en16020759>)

Refereed National Journal

Proceedings of International Conferences

1. S. Shrivastava, R. Pandey and A. Dubey; Carbon Nanomaterials from Natural Fiber for Energy Storage; International e-Conference on Textiles for Advanced Technologies Textile-Tech-2022 November 11-13, 2022, IIT Delhi
2. Jovanpreet Singh, Amarish Dubey and Stuti Shrivastava; Natural Fibers: The Energy Source for Electrical Vehicles; 3rd International Conference on Functional Textiles & Clothing | 10th, 12th February 2023 New Delhi, India.
3. Jovanpreet Singh, Shivangi Srivastava, Stuti Shrivastava, Ritu Pandey, Amarish Dubey, "Comparative study of Structures of Electrochromic Device for Flexible Electrochromic Display," 2023 International Conference on Device Intelligence, Computing and Communication Technologies, (DICCT), 17-18 March 2023, Subhradip Chakraborty, Tanmay Joshi, and Sajal Agarwal, "Internet of Things (IoT) Based Cost Effective Weather Monitoring Station" in International Conference on Device Intelligence, Computing, and Communication Technologies, Graphic Era University, Dehradun, India, 17-18 March 2023.
4. Sajal Agarwal and Gargi Srivastava, "Recent Advancements in Structural Health Monitoring using Optical Sensor," in International Conference on Device Intelligence, Computing, and Communication Technologies, Graphic Era University, Dehradun, India, 17-18 March 2023.
5. Rohit Bhavesh, Ankur Pandey and Sudhir Kumar, Smart Device Localization under Generic $(\alpha\text{-}\kappa\text{-}\mu)$ Shadowed Fading IoT Environment using Signed Gradient Method, IEEE Statistical Signal Processing Workshop (SSP), IEEE, Hanoi, Vietnam, pp. 1-, July 2023. DOI: 10.1109/SSP53291.2023.10208026

Proceedings of National Conferences

1. S Tewari, U. D. Dwivedi, 'Ensemble base big data analytics of lithofacies for automatic development of

वार्षिक प्रतिवेदन 2022-2023

petroleum reservoir,' Computers & Industrial Engineering 128, 937-947.

2. R Vaish, U. D. Dwivedi, S Tewari, and SM Tripathi, 'Machine learning application in power system fault diagnosis: Research advancement and perspective,' Engineering Applications of Artificial Intelligence, 106, 104504.
3. S Tewari, U. D. Dwivedi A comparative study of heterogeneous ensemble methods for the identification of geological lithofacies Journal of Petroleum Exploration and Production Technology 10 (5), 1849-1868.
4. Shivanshu Shrivastava, B. Chen, C. Chen, H. Wang and M. Dai, "Deep Q-Network Learning Based Downlink Resource Allocation for Hybrid RF/VLC Systems," in IEEE Access, vol. 8, pp. 149412-149434, 2020.
5. R Pandey, M K Sinha, Amarish Dubey, Cellulosic fibers from Lotus (Nelumbo nucifera) peduncle Journal of natural fibers 17 (2), 298-309.

प्रतिष्ठित आगंतुक

क्र. सं.	आगंतुक का नाम और पदनाम	दौर की तारीख	दौर का उद्देश्य
1	Arsh Goyal, SDE, Samsung	1st April, 2022	Lecture
2	Dr. Anil Kumar, Principle Scientist, Indian Institute of Remote Sensing	September 2022 (Online)	Lecture
3	Dr. Varun Mishra, Assistant Professor, Graphic Era University	October 2022 (Online)	Lecture
4	Jay Shah, Director of Semiconductor Fab Engineering, Global Foundries	October 2022 (Online)	Lecture
5	Shri Apoorva Mathur, Director, R&D, Synopsis	13th November, 2022 (Online)	Orientation Program of B.Tech 1st year students
6	Prof. P. Chakrabarti, Director, Indian Institute of Engineering Science & Technology	18th November, 2022	Lecture and research discussion with faculty and PhD scholars



Fundamental of Electronics Engineering Lab



Multiphase (5-phase and 9-phase) Motor Drives (Hardware setup for real time implementation)



Setup of programmable 3-phase AC source



Advanced Design & Simulation Lab and FPGA Architecture & HDL programming Lab



Hardware-in-loop (HIL) simulator for Electric Vehicle and Renewable energy integration



FPGA controller and 4 channel Digital Storage Oscilloscope

विज्ञान और मानविकी विभाग

स्थापना का वर्ष: 2008

विभागाध्यक्ष: डॉ. अभय कुमार चौबे, दिनांक 01.07.2019

विभाग/केंद्र का संक्षिप्त परिचय

अनुसंधान के प्रमुख क्षेत्र

- थर्मल स्टोरेज सिस्टम (भंडारण सामग्री के साथ और उसके बिना)
- सौर तापीय ऊर्जा भंडारण प्रणालियों का विकास
- गुप्त ऊष्मा भंडारण प्रणालियाँ
- धातु-कार्बनिक ढाँचे
- विषम उत्प्रेरण
- इलेक्ट्रोकेटलिसिस
- परमाणु भौतिकी
- थर्मल ऊर्जा भंडारण
- ऊर्जा सामग्री के लिए इलेक्ट्रॉनिक संरचना गणना
- घनत्व कार्यात्मक सिद्धांत गणना के माध्यम से संरचना-संपत्ति सहसंबंध
- ग्राफीन सामग्री
- 2डी-नैनोमटेरियल्स
- फोटो कैटलिसिस
- इलेक्ट्रो कैटलिसिस
- ओ संवेदन
- ऊर्जा अनुप्रयोग के लिए ल्यूमिनसेंट नैनोस्ट्रक्चर
- एकल अणु नैनोकेटलिसिस/फोटोकैटलिसिस
- बायोमास का मूल्यांकन
- ओ नैनोबायोकेमिस्ट्री
- टिकाऊ सामग्री
- प्रवाह रसायन शास्त्र
- हाइड्रोजल रसायन विज्ञान
- वॉटर शॉट ऑफ
- तेल पुनर्प्राप्ति बढ़ाएँ
- ओ पेट्रो रसायन
- सॉफ्ट सेंसर और एक्चुएटर्स
- सौर ऊर्जा सामग्री
- नैनोमटेरियल का विज्ञान
- मल्टीफेरोइक और मैग्नेटोइलेक्ट्रिक सामग्री
- परावैद्युत सामग्री
- सामग्री का आयनिक नियंत्रण
- अल्ट्रा-हाई-कैपेसिटर
- बायोगैस प्रणाली और प्रौद्योगिकी
- बायोमास और अपशिष्ट प्रबंधन
- जलीय बायोमास

- समकालीन साहित्य में स्त्री-पुरुष संबंध
- भारतीय सिनेमा में नारीवाद और लैंगिक मुद्दे
- विज्ञापन स्क्रिप्ट और सिद्धांत
- ऊर्जा और संचार
- विकास का समाजशास्त्र
- शहरी समाजशास्त्र

आधारभूत संरचना

क्र.सं.	विवरण	संख्या
1.	कक्षाओं की संख्या	1
2.	व्याख्यान कक्षाओं की संख्या	1
3.	प्रयोगशाला की संख्या	2 (यूजी)
4.	विभाग/केंद्र/केंद्र में छात्रों के लिए उपलब्ध कंप्यूटरों की संख्या	5 (अनुसंधान प्रयोगशाला)

छात्र संख्या

क्र.सं.	कार्यक्रम	I वर्ष	II वर्ष
1.	पीएच.डी. (संस्थान फेलोशिप के तहत)	8 (2023)	23 (2022)
2.	पीएच.डी. (प्रोजेक्ट फेलोशिप के तहत)	0 (2023)	2 (2022)
3.	पीएच.डी. (प्रायोजित श्रेणी के अंतर्गत)	शून्य (2023)	2 (2022) ((सीएसआईआर नेट जेआरएफ) और (यूजीसी नेट जेआरएफ))

उन छात्रों/विद्वानों के नाम जिन्होंने विदेश में या भारत में सम्मेलनों/कार्यशालाओं/सेमिनारों और संगोष्ठियों में भाग लिया

क्र. सं.	छात्र का नाम	रोल नंबर	सम्मेलन/संगोष्ठी/संगोष्ठी/ कार्यशाला	दिनांक एवं स्थान	वित्तीय सहायता
1	चंदन उपाध्याय	20BS0005	एसपीएसआई-मैक्रो-2022	एनसीएल पुणे 2-4 नवंबर 2022	संस्था
2	अर्पण तिवारी	20BS0012	एसपीएसआई-मैक्रो-2022	एनसीएल पुणे 2-4 नवंबर 2022	संस्था
3	शादाब सैफी	PC18002	सम्मेलन (सीआरएसआई)	3-5 फरवरी 2023, जेएनयू नई दिल्ली	आर.जी. आई.पी. टी.
4	गार्गी डे	PC19002	सम्मेलन (सीआरएसआई)	3-5 फरवरी 2023, जेएनयू नई दिल्ली	आर.जी. आई.पी. टी.
5	शादाब सैफी	PC18002	सम्मेलन (एमटीआईसी)	15-17 दिसंबर 2022, बी.एच.यू.	आर.जी. आई.पी. टी.
6	गार्गी डे	PC19002	सम्मेलन (एमटीआईसी)	15-17 दिसंबर 2022, बी.एच.यू.	आर.जी. आई.पी. टी.

वार्षिक प्रतिवेदन 2022-2023

क्र. सं.	छात्र का नाम	रोल नंबर	सम्मेलन/संगोष्ठी/ संगोष्ठी/ कार्यशाला	दिनांक एवं स्थान	वित्तीय सहायता
7	अमित कुमार वर्मा	20BS0003	केमिकल इंजीनियरिंग कांग्रेस (केमकॉन 2022)	27 से 30 दिसंबर 2022, एचबीटीयू कानपुर, भारत	प्रोजेक्ट पी-2001
8	अमित कुमार वर्मा	20BS0003	नैनोमेटेरियल्स और टिकाऊ अनुप्रयोगों पर अंतर्राष्ट्रीय सम्मेलन, (NANO-SA-2023)	10-11 जनवरी 2023, औरंगाबाद महाराष्ट्र, भारत	प्रोजेक्ट पी-2001
9	प्रेरणा त्रिपाठी	21BS0005	केमिकल इंजीनियरिंग कांग्रेस (केमकॉन 2022)	10-11 जनवरी 2023, महाराष्ट्र, भारत	प्रोजेक्ट पी-2001
10	अंकित श्रीवास्तव	PRE19001	सतत विकास के लिए अनुसंधान प्रतिमान पर सम्मेलन (आईसीआईआरपीएसडी 2023)	झारखण्ड राय विश्वविद्यालय, राँची द्वारा 27-28 अप्रैल, 2023 को आयोजित।	--
11	एकता कुशवाह	22BS0002	कार्यशाला-भारत-आरएएल न्यूट्रॉन और म्यूऑन विज्ञान बैठक	12-16 जून, 2023, जेएनसीएसएआर बेंगलुरु	--
विदेश					
1	गौरव रॉय	22BS0003	आईएसआईएस सुविधाएं, विज्ञान और प्रौद्योगिकी सुविधाएं परिषद, यूके में प्रयोग करना	रदरफोर्ड एपलटन प्रयोगशाला (आरएएल), ऑक्सफोर्डशायर	डीएसटी-आरएएल (यूके-भारत) परियोजना

संकाय और उनकी गतिविधि

संकाय और विशेषज्ञता के उनके क्षेत्र

क्र. सं.	नाम, योग्यताएं, कर्मचारी संख्या	पीएचडी डिग्री प्रदान करने की तिथि	विशेषज्ञता के प्रमुख क्षेत्र (अधिकतम 3 क्षेत्र)
आचार्य			
1	आचार्य अभय कुमार चौबे	1995	Nanotechnology, Water Shut-off, Enhanced oil recovery & Petrochemistry
2	आचार्य उमाप्रसन्ना ओझा	2006	Hydrogels, Sustainable material & Catalysis
3	आचार्य अतुल शर्मा	2003	Phase change material, Solar thermal energy storage system & Renewable energy
सह आचार्य			
1	डॉ. सौरभ मिश्रा	2007	Energy and Communication & Advertising Script and Theory
2	डॉ. देबाशीष पांडा	2008	Biomass Valorization, Nanobiochemistry & Flow Chemistry
सहायक आचार्य			
1	डॉ. अनिर्बन मुखर्जी	2012	Sociology
2	डॉ. तथामय बसु	2015	Magnetic, Ferroelectric and Multiferroic Materials, Quantum materials & Thermoelectric Materials

क्र. सं.	नाम, योग्यताएं, कर्मचारी संख्या	पीएचडी डिग्री प्रदान करने की तिथि	विशेषज्ञता के प्रमुख क्षेत्र (अधिकतम 3 क्षेत्र)
3	डॉ. विपिन अमोली	2016	Flexible electronics, Solar cell & Photocatalysis
4	डॉ. प्रवीण कुमार श्रीवास्तव	2013	Bioenergy
5	डॉ. शिखा सिंह	2018	Material, Polymer & Photocatalysis
अतिथि संकाय			
1	डॉ. शैलेन्द्र त्रिपाठी	1989	Catalysis, Petroleum Refining & Valorization

तकनीकी और गैर-शिक्षण कर्मचारी

क्र. सं.	नाम, योग्यता	पदनाम, कर्मचारी क्रमांक	विभाग में नियुक्ति की तिथि
1	श्री दीपक अस्थाना	तकनीकी अधीक्षक, ग्रेड- II	2009
2	श्री महेश सिंह	सहायक ग्रेड- I	2022
3	श्री अनुरुद्ध श्रीवास्तव	तकनीशियन ग्रेड- I	2021
4	श्री अडिग प्रताप सिंह	तकनीशियन ग्रेड- I	2018
5	श्री करण बहादुर	कार्यालय परिचारक	2018

शैक्षणिक संस्थानों और सार्वजनिक क्षेत्र के उपक्रमों में संकाय सदस्यों द्वारा भाग लेने वाले अल्पकालिक पाठ्यक्रम/कार्यशालाएं/सेमिनार/संगोष्ठी/सम्मेलन/प्रशिक्षण कार्यक्रम

क्र. सं.	संकाय सदस्य का नाम	शीर्षक	अवधि और स्थान
सेमिनार/संगोष्ठी/सम्मेलन			
1	प्रो. ए.के.चौबे	Biofuels towards a Carbon Neutral World	10 अगस्त 2022 मंत्रालय द्वारा आयोजित पेट्रोलियम एवं प्राकृतिक का गैस, सरकार, भारत (ऑनलाइन)
2	प्रो उमाप्रसन्ना ओझा	SPSI-MACRO-2022	एनसीएल पुणे, 2-4 नवंबर 2022
3	डॉ. अनिर्बन मुखर्जी	Hybridity, Mimicry, and Cultural Ambivalence: The Question of Cultural Identity of Bengali Immigrants in the United States" in the International Interdisciplinary Series of Conferences on The Global Indian Diasporas: Literary, Cultural and Socio-Economic Perspectives in the 21st Century	प्रवासी अध्ययन केंद्र, गुजरात केंद्रीय विश्वविद्यालय, गांधीनगर, भारत द्वारा आयोजित, 23-25 फरवरी 2023
4	डॉ. अनिर्बन मुखर्जी	Schooling of the Marginalized: Deconstructing the Vicissitudes of Violence" in the National Seminar on 'Implementation of Multi and Trans-Disciplinary Education under NEP2020	फर्ग्यूसन कॉलेज, पुणे, भारत द्वारा आयोजित, जनवरी 18-20, 2023

वार्षिक प्रतिवेदन 2022-2023

क्र. सं.	संकाय सदस्य का नाम	शीर्षक	अवधि और स्थान
5	डॉ. अनिर्बन मुखर्जी	Successfully completed participation in 10 Day's National e-Workshop on "Advanced Research Methodology in Social Sciences" from 20th April, 2022 to 29th April, 2022	द्वारा आयोजित ए.के. दासगुप्ता योजना एवं विकास केंद्र, विश्वभारती, 20-29 अप्रैल, 2022
6	डॉ शिखा सिंह	International Platform on Hydrogen Economy - An Industry-Academia Conclave 2022	30 सितंबर 2022, इंपीरियल हॉल, द प्राइड प्लाजा होटल एयरोसिटी, नई दिल्ली
बैठक			
1	डॉ शिखा सिंह	DST Review Meeting	जवाहरलाल नेहरू सेंटर फॉर एडवांस्ड साइंटिफिक रिसर्च (जेएनसीएसआर) 14-15 दिसंबर, 2022

अन्य संस्थानों में संकाय सदस्यों द्वारा दिए गए विशेष व्याख्यान

क्र. सं.	संकाय सदस्य का नाम	व्याख्यान का विषय	संस्थान	दिनांक
1	डॉ. अरशद ऐजाज़	Pairing Single-Metal-Atom with Second Metal for Electrochemical Oxygen Reduction	बीएचयू	16 दिसंबर 2022
2	डॉ. अरशद ऐजाज़	Coupling single-metal-atom with second metal for electrochemical oxygen reduction	आईआईटी रुड़की	05 मार्च 2023

शैक्षणिक और व्यावसायिक समाजों की फैलोशिप

क्र. सं.	संकाय सदस्य का नाम	फैलोशिप का विवरण
1	डॉ शिखा सिंह	डीएसटी इंस्पायर फैकल्टी

पुस्तकें, मोनोग्राफ लेखक/सह-लेखक

क्र. सं.	लेखक/सह-लेखक का नाम	शीर्षक	प्रकाशक
1	अमृतांशु शुक्ला, अतुल शर्मा, सौरभ मिश्रा	The South Asian Energy Corridor: Energy Security and Sustainable Clean Energy	एप्पल अकादमिक प्रेस, (2022)
2	अतुल शर्मा, अभिषेक आनंद, अमृतांशु शुक्ला, डी. बुद्धि	Nanotechnology in Concentrated Solar Power Technology, Solar Energy Harvesting, Conversion and Storage,	अध्याय-4, एल्सेवियर (2023)

क्र. सं.	लेखक/सह-लेखक का नाम	शीर्षक	प्रकाशक
3	अंकित श्रीवास्तव, अभिषेक आनंद, अमृतांशु शुक्ला, ऋचा कोठारी, डी. बुद्धि, एफ. ब्रूनो, अतुल शर्मा	Application of green energy for drying of food products, Advancements in Nanotechnology for Energy and Environment	स्प्रिंगर सिंगापुर, पी. 51-81 (2022)
4	शैलेन्द्र सिंह, अभिषेक आनंद, अमृतांशु शुक्ला, डी. बुद्धि, एफ. ब्रूनो, अतुल शर्मा	Application of latent heat storage materials in the storage tank of the SWH system, Advancements in Nanotechnology for Energy and Environment	स्प्रिंगर सिंगापुर, पी. 83-98 (2022)
5	अंकित श्रीवास्तव, अभिषेक आनंद, शैलेन्द्र सिंह, अमृतांशु शुक्ला और अतुल शर्मा	Indo-China Renewable Energy hub in the Asian Energy Corridor, The South Asian Energy Corridor: Energy Security and Sustainable Clean Energy	एप्पल अकादमिक प्रेस, अध्याय-4 (प्रेस में)
6	अंकित श्रीवास्तव, अभिषेक आनंद, अमृतांशु शुक्ला और अतुल शर्मा	Wind Energy Status in South Asian Countries, The South Asian Energy Corridor: Energy Security and Sustainable Clean Energy	एप्पल अकादमिक प्रेस, अध्याय-8 (प्रेस में)
7	शैलेन्द्र सिंह, अभिषेक आनंद, अमृतांशु शुक्ला और अतुल शर्मा	The role of the solar water heating system in South Asian countries, The South Asian Energy Corridor: Energy Security and Sustainable Clean Energy	एप्पल अकादमिक प्रेस, अध्याय-9 (प्रेस में)
8	अंकित श्रीवास्तव, अभिषेक आनंद, अमृतांशु शुक्ला और अतुल शर्मा	Energy Sustainability through Solar Dryer in South Asian Countries, The South Asian Energy Corridor: Energy Security and Sustainable Clean Energy	एप्पल अकादमिक प्रेस, अध्याय-10 (प्रेस में)
9	जी. डे, एस. सैफी, एम. एस्के, ए.एस. के. सिन्हा, डी. बनर्जी, ए. ऐजाज़	Immobilizing a homogeneous manganese catalyst into MOF pores for α -alkylation of methylene ketones with alcohols	रॉयल सोसाइटी ऑफ केमिस्ट्री

पत्रिकाओं के संपादकीय बोर्ड

क्र. सं.	संकाय सदस्य का नाम	पद (संपादक/सदस्य)	जर्नल का नाम
1	डॉ. उमाप्रसन्न ओझा	अतिथि संपादक अतिथि संपादक समीक्षा संपादक	Symmetry Materials Frontiers in Chemistry
2	डॉ. अतुल शर्मा	Guest Editor of a special issue on "Thermal Energy Storage and Solar Thermal Energy Systems" in 'Energies' (ISSN 1996-1073) journal (December 2022).	A2: सौर ऊर्जा और फोटोवोल्टिक प्रणाली
3	प्रो. ए.के. चौबे	Member Editorial Board	ऊर्जा अनुसंधान में अग्रणी पेट्रोलियम इंजीनियरिंग और प्रौद्योगिकी जर्नल

नई सुविधाएं जोड़ी गईं

क्र.सं.	विवरण (बुनियादी ढांचा, उपकरण, आदि)	मूल्य (लाख रुपये में)
1.	Muffle Furnace (1100 oC)	Rs 1, 75,000.00

पेटेंट दाखिल किया गया

क्र.सं.	संकाय सदस्य का नाम	पेटेंट का शीर्षक
1.	डॉ. अरशद ऐजाज़	Three-dimensional water electrode for seawater electrolysis (202211015887)
2.	डॉ शिखा सिंह	Layered electrode for seawater electrolysis (202211011767)

अनुसंधान और विकास

प्रायोजित अनुसंधान परियोजनाएँ

क्र. सं.	शीर्षक	अवधि	फंडिंग एजेंसी	राशि (लाख रुपये में)	समन्वयक
1.	Scalable Strategies Towards Tough & Functional Hydrogels through Controlling of the Chain Confrontation and Entanglement followed by Sequential Networking for Soft Electronics Applications	2023-2025	SERB	39.9	प्रो यू ओझा
2.	Metal-Organic Frameworks-Derived Nanomaterials for Electrocatalysis	2021-24	CSIR	19.44	डॉ. अरशद ऐजाज़
4.	Performance Evaluation of a floating Bio-gas Plant by Integrated Semi-transparent photo-voltaic Thermal (SPVT) collectors (Bi-SPVT) during harsh winter Indian climatic conditions	2021 to 2024	PCRA	25	डॉ. प्रवीण कुमार श्रीवास्तव
5.	Development of Materials Applicable for Artificial photosynthesis or Sustainable Production of Energy	2018-2023	DST	35	डॉ शिखा सिंह
7.	Design and Investigation of magnetoelectric materials- an emerging route in data-storage Devices	2022-24	SERB	33	डॉ तथामय बसु
8	Investigation of magnetic structure and magnetoelectric coupling of designed 4d/5d -4f coupled strongly correlated systems	2022-25	UGC-DAE CSR	1.35	डॉ तथामय बसु

एमओयू अनुसंधान प्रकाशन के तहत अन्य विश्वविद्यालयों के साथ संकाय सदस्यों की भागीदारी

क्र.सं.		सं०
1	राष्ट्रीय पत्रिकाओं में प्रकाशित पत्रों की कुल संख्या	02
2	अंतर्राष्ट्रीय पत्रिकाओं में प्रकाशित पत्रों की कुल संख्या	25

Refereed International Journals

Before sending nodal member should ensure that the Publications should be strictly in this format.

1. Production and characterization of sustainable vermicompost derived from poultry litter and rice straw

using tiger worm *Eisenia fetida*. P. K. Srivastava, A. Singh, S. Kumari, S. Arora, A. K. Choubey, A. S. K. Sinha. Bioresource Technology. 369 (2023) 128377.

2. Application of α -MnO₂ nanoparticles for residual oil mobilization through surfactant polymer flooding. Himanshu Kesarwani, Vartika Srivastava, Ajay Mandal, Shivanjali Sharma, Abhay Kumar Choubey. Environmental Science and Pollution Research, 2022.
3. The effects of dietary immunostimulants on the innate immune response of Indian major carp: A review. Sudhir Kumar, Abhay Kumar Choubey, Praveen Kumar Srivastava. Fish and Shellfish Immunology. 123 (2022) 36-49.
4. Development of the nano-enhanced phase change materials using α -MnO₂ nanoparticles prepared through green route synthesis. Anand, Abhishek; Srivastava, Vartika; Shukla, Amritanshu; Choubey, Abhay; Sharma, Atul. Energy Storage. 2022.
5. Numerical analysis of phase change and container materials for thermal energy storage in the storage tank of solar water heating system. Shailendra Singh, Abhishek Anand, A. Shukla, Atul Sharma. Journal of Thermal Science, 32, 2023.
6. Box-Type Solar Cookers: An Overview of Technological Advancement, Energy, Environmental, and Economic Benefits. Navendu Misra, Abhishek Anand, Saurabh Pandey, Karunesh Kant, Amritanshu Shukla, Atul Sharma. Energies, Energies, 16, 1697 (2023).
7. Development and thermophysical analysis of binary eutectics phase change materials for solar drying application. Saurabh Pandey, Abhishek Anand, Dharam Buddhi, Atul Sharma., F1000Research (2022).
8. Development of phase change materials for low-temperature thermal energy storage application. Kamal Nayan, Abhishek Anand, A. Shukla, D. Buddhi, Atul Sharma., F1000Research (2022).
9. Performance evaluation and financial viability analysis of grid associated 10 MWP solar photovoltaic power plant at UP India. Shailendra Singh, Majed Alharthi, Abhishek Anand, Amritanshu Shukla, Atul Sharma, Hitesh Panchal., Scientific Reports, 12, 22380 (2022).
10. Sensitivity Analysis for Decisive Design Parameters for Energy and Indoor Visual Performances of a Glazed Façade Office Building. Ramkishore Singh, Dharam Buddhi, Samar Thapa, Chander Prakash,

- Rajesh Singh, Atul Sharma, Shane Sheoran, K. K. Saxena, *Sustainability*, 14, 14163 (2022).
11. Performance evaluation of an industrial solar dryer in Indian scenario: A techno-economic and environmental analysis. Ankit Srivastava, Abhishek Anand, A. Shukla, Anil Kumar, Atul Sharma., *Clean Technologies and Environmental Policy*, Vol. 24, 2881–2898 (2022).
 12. Potential of biogenic and non-biogenic waste materials as flocculant for algal biomass harvesting: Mechanism, parameters, challenges and future prospects, Har Mohan Singh, Mriduta Sharma, V.V. Tyagi, Kajol Goria, D. Buddhi, Atul Sharma, Frank Bruno, Shane Sheoran, Richa Kothari, *Journal of Environmental Management (In Press – 2023)*
 13. Closed-loop Recyclable & Biodegradable Thioester Based Covalent Adaptable Networks. Maity, P.; Upadhyaya, C.; Ojha, U. *Chem. Commun.*, 2023, 59, 4225-4228.
 14. Scalable Green Synthesis of Ni₃N Encapsulated NC layered FeOOH Heterostructures: Bifunctional Electrodes for Sustainable Electrocatalytic Sea Water Splitting. Tewary, A.; Mandal, S.; Alam, Z.; Sinha, A. S. K.; Ojha, U., *ACS Sustain. Chem. Eng* 2023, 11, 6556-6566.
 15. Stress Induced Shape Shifting Materials Possessing Autonomous Self-Healing and Scratch Resistant Ability. Upadhyaya, C.; Ojha, U., *Chem. Asian. J.* 2023, 18, e202201082.
 16. MoS₂ and WS₂ Nanosheets Decorated on Metal–Organic Framework-Derived Cobalt/Carbon Nanostructures as Electrocatalysts for Hydrogen Evolution S. Saifi, G. Dey, J. Karthikeyan, A. S. K. Sinha, and A. Aijaz *ACS Appl. Nano Mater.* 2022, 5(8) 10696-10703.
 17. Immobilizing a homogeneous manganese catalyst into MOF pores for α -alkylation of methylene ketones with alcohols. G. Dey, S. Saifi, M. Sk, A. S. K. Sinha, D. Banerjee, and A. Aijaz *Dalton Trans.*, 2022, 51, 17973-17977.
 18. Positive Ageing in Institutional Homes: Towards a De-Stigmatization Process, Working with Older People. Gupta, Satish, and Anirban Mukherjee, (2023), Emerald Publications (Forthcoming).
 19. Ittar Industry of Kannauj: A Saga of Commodification of Olfactory Aesthetics. Satish, Shukla, Anirban Mukherjee, and Gerad Middendorf. (2023). *Journal of Land and Rural Studies*, Sage Publications (ISSN 23210249). (Forthcoming).
 20. An estimation of bio-methane generation from photovoltaic thermal compound parabolic concentrator (PVT-CPC) integrated fixed dome biogas digester. Amit K. Singh, Praveen K. Srivastava, Akhoury S.K. Sinha, Gopal N. Tiwari. *Biosystems Engineering* (2023) 227: 68-81.
 21. Waste ilmenite sludge-derived low-cost mesoporous Fe-doped TiO₂: A versatile photocatalyst for enhanced visible light photocatalysis without a Cocatalyst. A. Mishra, V. Verma, A. Khan, D. Kumar, T. S. Khan, V. Amoli, A. K. Sinha. *Journal of Environmental Chemical Engineering* 11, 110319, 2023.
 22. A novel ternary metal oxide cascade Z-scheme heterojunction for efficient CO₂ photoconversion without a co-catalyst. P. K. Prajapati, D. Garg, A. Malik, D. Kumar, V. Amoli, S. L Jain. *Journal of Environmental Chemical Engineering* 10, 108147, 2022.
 23. Visible Light-Promoted Enhanced Photocatalytic Hydrogen Generation by the CeF₃:Ho³⁺-Incorporated TiO₂ Nanosystem. A. K. Verma, P. Tripathi, A. Dubey, N. K. Vishwakarma, A. S. K. Sinha, S. Singh. *ACS Applied Energy Materials*, 2023, 6, 11, 5739–5752
 24. Photocatalytic Production of Oxygen by Nitrogen Doped Graphene Oxide Nanospheres: Synthesized via Bottom-Up Approach Using Dibenzopyrrole, A. K. Verma, P. Tripathi, Z. Alam, S. K. Mishra, B. Ray, A. S. K Sinha, S. Singh, *Chemistry Select*, 2022, 7, e202202813.
 25. Fabrication and evaluation of a self-standing reduced graphene-tungsten oxides hybrid electrode for acidic water splitting, P. Tripathi, A. K. Verma, A. Vishwakarma, K. Mitra, B. Ray, A. S. K Sinha, S. Singh, *International Journal of Hydrogen Energy*, 2022, 47, 36381-36396.

Refereed National Journal

1. Gupta Satish & Mukherjee, Anirban. (2022). A Study of Elderly in the Old Age Homes of Varanasi. *Indian Journal of Gerontology*. (A Quarterly journal devoted to research on Ageing) Vol. 36(4): 560-573. (Reg.No: R.N.17985/69: ISSN 0971-4189).
2. Shukla, Satish and Anirban Mukherjee (2022). Unmasking the Challenges of Attar Industry in Kannauj: A Repertoire of Sociological Insights. *Man and Development*. (ISSN 0258-0438) (Forthcoming) OCLC/WorldCat Indexed.

अध्याय 9

प्रबंध अध्ययन विभाग

स्थापना का वर्ष: 2008

विभागाध्यक्ष: डॉ. जया श्रीवास्तव

आधारभूत संरचना

क्र.सं.	विवरण	संख्या
1	कक्षाओं की संख्या	01
2	व्याख्यान कक्षाओं की संख्या	01
3	प्रयोगशाला की संख्या	01
4	विभाग/केंद्र/केंद्र में छात्रों के लिए उपलब्ध कंप्यूटरों की संख्या	40

नए पाठ्यक्रम शुरू किए गए

क्र.सं.	कोर्स कोड	कोर्स का नाम	कोर्स क्रेडिट
1	CS-381	Linear Optimization for CSE	8

छात्र संख्या

क्र.सं.	कार्यक्रम	I वर्ष	II वर्ष	III वर्ष	IV वर्ष
1.	Ph. D (Under Institute Fellowship)	03	01	04	04

उन छात्रों/विद्वानों के नाम जिन्होंने विदेश में या भारत में सम्मेलनों/कार्यशालाओं/सेमिनारों और संगोष्ठियों में भाग लिया

क्र.सं.	छात्र का नाम	रोल नंबर	सम्मेलन/संगोष्ठी/संगोष्ठी/कार्यशाला	दिनांक एवं स्थान	वित्तीय सहायता
भारत					
1	श्री कौशल झा	21MS0001	25th Annual SOM Conference	Dec 17, 2022 IIM Indore	स्वयं
2	दिव्यांशी पाल	PM1904	International Conference on sustainable Business Management (SBM 2023)	23to 25 March 2023, IIT Roorkee	संस्था
3	एकता चौधरी	PM1905	International Conference on sustainable Business Management (SBM 2023)	23to 25 March 2023, IIT Roorkee	संस्था
4	शनि साव	22MS0005	Workshop on Fraud Analytics and Forensic Accounting	31 march 23, GITAM Hyderabad (online)	स्वयं
5	नेहा दीक्षित	20MS0003	Human Capital Development for Energy Transition	27-28 Feb 2023, Indian Habitat centre New Delhi	संस्था

क्र.सं.	छात्र का नाम	रोल नंबर	सम्मेलन/संगोष्ठी/संगोष्ठी/कार्यशाला	दिनांक एवं स्थान	वित्तीय सहायता
7	कदम संभाजी नामदेव	PM1606	International Conference on Business, Digitalization and Sustainability (ICBDS) 2023	UPES Dehradun, 2-4 February 2023.	स्वयं
8	कदम संभाजी नामदेव	PM1606	Workshop on “Reflexive Methodology” at the International Conference on Business, Digitalization and Sustainability (ICBDS)	UPES Dehradun, 2-4 February 2023	स्वयं
9	कदम संभाजी नामदेव	PM1606	India Energy Week (IEW) 2023	Bengaluru, Karnataka, 6-8 February 2023	स्वयं

विदेश

क्र.सं.	छात्र का नाम	रोल नंबर	सम्मेलन/संगोष्ठी/संगोष्ठी/कार्यशाला	दिनांक एवं स्थान	वित्तीय सहायता
1	कदम संभाजी नामदेव	PM1606	Conference “12th Asia Pacific LNG & Gas Summit 2022	Singapore, 6-8 July 2022	स्वयं
2	कदम संभाजी नामदेव	PM1606	Conference GASTECH Exhibition & Conference 2022	Milan, Italy, 5-8 September 2022.	स्वयं

संकाय और उनकी गतिविधि

संकाय और उनकी विशेषज्ञता के क्षेत्र

क्र.सं.	नाम, योग्यताएं, कर्मचारी संख्या	पीएचडी डिग्री प्रदान करने की तिथि	विशेषज्ञता के प्रमुख क्षेत्र (अधिकतम 3 क्षेत्र)
प्रोफेसर			
1	प्रो. संजय कुमार कर		विपणन
एसोसिएट प्रोफेसर			
1	डॉ. मोहम्मद इरफ़ान	05 जुलाई 2013	ऊर्जा अर्थशास्त्र
2	डॉ. जया श्रीवास्तव		HRM
3	डॉ. कविता श्रीवास्तव		विपणन
4	डॉ. रोहित बंसल		वित्त
सहायक प्रोफेसर			
1	डॉ. श्रवण कुमार त्रिवेदी		आईटी और एनालिटिक्स
2	डॉ. देबाशीष जेना		संचालन
3	डॉ. सरोज कुमार मिश्र	मई 2012	विपणन एवं उपभोक्ता व्यवहार

राजीव गाँधी पेट्रोलियम प्रौद्योगिकी संस्थान

तकनीकी और गैर-शिक्षण कर्मचारी

क्र.सं.	नाम, योग्यता	पदनाम, कर्मचारी क्रमांक	विभाग में नियुक्ति की तिथि
1.	अरविंद कुमार वर्मा	सहायक ग्रेड-I (अनुबंध पर)	1 अगस्त 2019

संकाय सदस्यों द्वारा आयोजित लघु अवधि के पाठ्यक्रम/कार्यशालाएं/संमेलन/संगोष्ठी/सम्मेलन

क्र.सं.	समन्वयक	शीर्षक	अवधि
1	डॉ जया श्रीवास्तव	International Conference on Human Capital Development for Energy Transition	Feb. 27-28, 2023

शैक्षणिक संस्थानों और सार्वजनिक क्षेत्र के उपक्रमों में संकाय सदस्यों द्वारा भाग लेने वाले अल्पकालिक पाठ्यक्रम/कार्यशालाएं/संमेलन/संगोष्ठी/सम्मेलन/प्रशिक्षण कार्यक्रम

क्र. सं.	संकाय सदस्य का नाम	शीर्षक	अवधि और स्थान
संमेलन/संगोष्ठी/सम्मेलन			
1	डॉ श्रवण कुमार त्रिवेदी	CERE 2023	2 Days, IIM Indore
2	डॉ श्रवण कुमार त्रिवेदी	ICSPN 2022	2 Days, Thailand
3	डॉ देबाशीष जेना	Chaired a session & presented paper at 25th Annual SOM Conference	16th to 18th Dec 2022 At IIM Indore
4	डॉ देबाशीष जेना	Coauthored paper was presented by Dr. Saurabh Chandra at EURO-2022 conference	EURO-2022 3-6 July 2022, Aalto University, Espoo, Finland
5	डॉ देबाशीष जेना	Attended MDP "Predictive Analytics and Financial Modelling"	26th - 30th Sep 2022: Held online" by NITIE, Mumbai
6	डॉ देबाशीष जेना	Attended Global Online Certification course on Deep Learning in Logistics	April 20th to April 29th, 2022: organized by NITIE, Mumbai, delivered by Prof. Rahul Rai (Clemson University, South Carolina, US)

पत्रिकाओं के संपादकीय बोर्ड

क्र. सं.	संकाय सदस्य का नाम	पद (संपादक/सदस्य)	जर्नल का नाम
1	प्रो. संजय कुमार कर	Editorial Board Member	Energy Research & Social Science, Elsevier
2	डॉ. रोहित बंसल	Editorial Review Board	Amity journal of Finance
3	डॉ. सरोज कुमार मिश्र	Editorial Review Board	Amity journal of Marketing

अनुसंधान और विकास

प्रायोजित अनुसंधान परियोजनाएँ

क्र. सं.	शीर्षक	अवधि	फंडिंग एजेंसी	राशि (लाख रुपये में)	समन्वयक

1	Prediction of intention to purchase and re-purchase the energy efficient home appliances: Evidence using Explainable Artificial Intelligence	2 Years	RGIPT	5 Lakhs	डॉ श्रवण कुमार त्रिवेदी

अनुसंधान प्रकाशन

क्र.सं.		सं.
1	अंतर्राष्ट्रीय पत्रिकाओं में प्रकाशित पत्रों की कुल संख्या	18
2	राष्ट्रीय सम्मेलनों में प्रस्तुत पत्रों की कुल संख्या	02
3	अंतर्राष्ट्रीय सम्मेलनों में प्रस्तुत पत्रों की कुल संख्या	09

Refereed International Journals

- Trivedi, SK. et al., (2023, Accepted). Research Trends in Sustainable E-Payment Systems: A Study Using Topic Modeling Approach IEEE transaction on engineering management (IEEE publication, A class as per ABDC list, Scopus Indexed, IF 8.702)
- Trivedi, SK. et al., (2023, Accepted). intention to use social media in online and blended learning in universities: Potential predictors and mediation of collectivism. IEEE transactions on engineering management (IEEE publication, Aclass as per ABDC list, Scopus Indexed, IF 8.702)
- Trivedi, SK. et al., (2022, Accepted). Intention to use social media in online/blended learning in universities: Potential predictors and mediation of social influence. IEEE transactions on engineering management (IEEE publication, A class as per ABDC list, Scopus Indexed, IF 8.702)
- Trivedi, SK., Patra, P., Shrivastava, P., Zhang, J., (2022, accepted). What Prompts Consumers to Purchase Online? A Machine Learning Approach. Electronic Commerce Research (Springer publication, ABDC A, Scopus Indexed, IF 3.42)
- Trivedi, SK. et al., (2022, Accepted). Exploring factors affecting users' behavioural intention to adopt digital technologies: the mediating effect of Social Influence. IEEE transactions on engineering management IEEE Publication, A class as per ABDC list, Scopus Indexed, IF 8.702)
- Trivedi, S.K., Patra, P., Singh, A., Deka, P. and Srivastava, P.R. (2022), "Analyzing the research trends of COVID19 using topic modeling approach", Journal of Modelling in Management, Vol. ahead-of-print No. ahead- ofprint. Emerald publication, ABDC C, Scopus Indexed, ABS 1)
- Srivastava, P. R., Zhang, Z. J., Eachempati, P., Trivedi, S. K., & Jasimuddin, S. M. (2022). The response of the

- scientific community to a global crisis: A systematic review of COVID-19 research in 2020. *British Journal of Health Care Management*, 28(2). (ABDC C, Scopus indexed)
8. Trivedi, SK. et al., (2022). Intention to use social media in higher education, mediation of peer influence. *Global Knowledge, Memory and Communication* (Emerald publication, B class as per ABDC list, Scopus Indexed)
9. M Irfan, B Mahapatra, RK Ojha. Energy Efficiency and Carbon Emissions in Developed and Developing Economies: Investigating the Moderating Role of Financial Development. *Journal of Quantitative Economics*.
10. Nibedita, B and Irfan, M. The Dynamic Nexus Among Energy Diversification and Carbon Emissions in the E7 Economies: Investigating the Moderating Role of Financial Development. *Emerging Markets Finance and Trade*.
11. Irfan, M., Mahapatra, B and Shahbaz, M. Energy efficiency in the Indian transportation sector: effect on carbon emissions. *Environment, Development and Sustainability*.
12. Mahapatra, B. and Irfan, M. Investigating asymmetric impacts of total factor energy efficiency on carbon emissions in India. *Environmental Science and Pollution Research*, 30, 55340–55353.
13. Kadam, S. and Srivastava, K. (2023) “Evolution of Gas Based Economy in India: A Case of Gujarat State” (accepted for publication in *Academy of Marketing Studies Journal*- Vol 28 Issue 1, 2024; ABDC – B Category)
14. Kadam, S. and Srivastava, K. (2023) “City Gas Distribution is driving India’s gas-based economy” (accepted for publication in *Academy of Marketing Studies Journal*; ABDC – B Category)
15. Kadam, S. and Srivastava, K. (2023) “Impact of Covid-19 Nation-wide lockdown on Indian Natural Gas Market” (Accepted for Publication in *Oil, Gas & Energy Quarterly*; ABDC – C Category)
16. 1. A Kumar, RK Choudhary, SK Mishra, SK Kar, R Bansal (2022). The growth trajectory of UPI-based mobile payments in India: enablers and inhibitors. *Indian Journal of Finance and Banking* 11 (1), 45-59.
17. S Harichandan, SK Kar, R Bansal, SK Mishra, MS Balathanigaimani, M Dash (2022). Energy transition research: A bibliometric mapping of current findings and direction for future research. *Cleaner Production Letters*, 100026. <https://doi.org/10.1016/j.clpl.2022.100026>
18. S Harichandan, SK Kar, R Bansal, SK Mishra (2022). Achieving sustainable development goals through adoption of hydrogen fuel cell vehicles in India: An empirical analysis. *International Journal of Hydrogen Energy*. <https://doi.org/10.1016/j.ijhydene.2022.11.024>
19. Kar, SK., Sinha A. S. K., Harichandan, S., Bansal, R., Balathanigaimai, M S. (2022). Hydrogen Economy in India: A status review. *WIREs Energy and Environment*. DOI: 10.1002/wene.459.
20. Kar, SK, Sinha, A. S. K., Bansal, R, Shabani, B., Harichandan, S. (2022). Overview of hydrogen economy in Australia. *WIREs Energy and Environment*. DOI: 10.1002/WENE.457.
21. Anand Kumar Mishra, Rohit Bansal, Prince Kumar Maurya, Sanjay Kumar Kar, Palvinder Kaur Bakshi (2022). Predicting the Antecedents of Consumers’ Intention towards Purchase of Mutual Funds: A Hybrid PLS-SEM-Neural Network Approach. *International Journal Consumer Studies*. <https://doi.org/10.1111/ijcs.12850>
22. Kar, S.K., Bansal, R. and Harichandan, S. (2022). An empirical study on intention to use hydrogen fuel cell vehicles in India. *International Journal of Hydrogen Energy*. <https://doi.org/10.1016/j.ijhydene.2022.04.137>
23. Investing for a better tomorrow: Values-driven antecedents of investment in socially responsible equity funds by Indian retail investors, *Journal of Cleaner Production*.
24. Maurya, P.K., Bansal, R. and Mishra, A.K. (2023), “Russia-Ukraine conflict and its impact on global inflation: an event study-based approach”, *Journal of Economic Studies*, Vol. ahead-of-print No. ahead-of-print. <https://doi.org/10.1108/JES-01-2023-0003>
25. Verma, R. K., & Bansal, R. (2023). Stock Market Reaction on Green-Bond Issue: Evidence from Indian Green-Bond Issuers. *Vision*, 27(2), 264–272. <https://doi.org/10.1177/09722629211022523>
26. Dixit, A., Mani, A. & Bansal, R. An adaptive mutation strategy for differential evolution algorithm based on particle swarm optimization. *Evol. Intel.* 15, 1571–1585 (2022). <https://doi.org/10.1007/s12065-021-00568-z>
27. Saini, A., Kumar, A., Mishra, S. K., Kar, S. K., & Bansal, R. (2023). Do environment-friendly toys have a future? an empirical assessment of buyers’ green toys decision-making. *Environment, Development and Sustainability* (Springer, Impact Factor: 4.9).

28. Kumar, A., Choudhary, R.K., Mishra, S.K., Kar, S. K., & Bansal, R. (2022). The growth trajectory of UPI-based mobile payments in India: enablers and inhibitors. Indian Journal of Finance and Banking, 11, 45-59 (ABDC category: C)
29. Harichandan, S., Kar, S. K., Bansal, R., & Mishra, S. K. (2022). Achieving sustainable development goals through adoption of hydrogen fuel cell vehicles in India: An empirical analysis. International Journal of Hydrogen Energy, 48, 4845-4859 (Elsevier, Impact Factor: 7.2).
30. Harichandan, S., Kar, S. K., Bansal, R., & Mishra, S. K., Balathanigaimani, M. S., Dash, S. (2022). Energy transition research: A bibliometric mapping of current findings and direction for future research. Cleaner Production Letters, 3, 1-17 (Elsevier).
4. Chaurasia M., and Srivastava, K. (2022) "Assessing the Impact of Advertisement on Consumer Purchase Intention for Prestigious Apparel Brands: Mediating Role of Masstige" presented in the International Conference on 'Shaping the Future of Management Education for Sustainable Emerging Economies' (SFME 2022) organized by DoMS IITRoorkee. for
5. Saini, A., & Mishra, S. K. (2023, March). Does the Need for Uniqueness, Attitude and Perceived Value have a role in determining Choice Behavior? The moderating role of Green Familiarity. International Conference on Sustainable Business Management, IIT Roorkee.
6. Kumar, A., Choudhary, R. & Mishra, S. K. (2023, March). Why Do Consumers Buy Handicraft Products? Do The Intention Leads to Advocacy: An Extension of TPB Model. International Conference on Sustainable Business Management, IIT Roorkee.
7. Choudhary, R., Kumar, A., & Mishra, S. K. (2023, March). Do Emotions have a Role in Shaping Consumers' Purchase Intention towards Handicraft Products. International Conference on Sustainable Business Management, IIT Roorkee.
8. Kumar, A., & Mishra, S. K. (2022, November). Has the Time Arrived for NFC- based Mobile Payments in India: An Empirical Investigation. International Conference on 'Shaping the Future of Management Education for Sustainable Emerging Economies (SFME 2022)', IIT Roorkee.
9. Saini, A., & Mishra, S. K. (2022, November). Does Green Familiarity, Mindful Consumption and Parasocial Relationships Influence Green Product Repurchase Intention? An Empirical Investigation of Indian Consumers. International Conference on 'Shaping the Future of Management Education for Sustainable Emerging Economies (SFME 2022)', IIT Roorkee.
10. Singh, V., & Mishra, S. K. (2022, November). An extended VT model to predict the intention to use Digital Currency in India. International Conference on 'Shaping the Future of Management Education for Sustainable Emerging Economies (SFME 2022)', IIT Roorkee.

Refereed National Journal

1. Bharadwaj S, Dubey R, Zafar MI, Faridi R, Jena D, Biswas S. Determination of Point-to-Point 3D Routing Algorithm Using LiDAR Data for Noise Prediction. Applied System Innovation. 2022; 5(3):58.

Proceedings of International Conferences

1. Irfan, M. Long-run impact of development of financial institutions and markets on renewable energy use: The case of South Asian economies. International Conference on Sustainable Business Management (SIBM), IIT Roorkee held from 23-March-2023 to 25-March-2023.
2. Choudhary, E. and Srivastava, K. "Collaborative Consumption: A more Sustainable way to Utilize Resources" Organized by IIT Roorkee during 26-27 March 2023
3. Pal D., and Srivastava, K, (2022) "Sustainable Branding: A changing Perspective, Organize by IIM Shillong Titled GLOGIFT 21 CONFERENCE Twenty First Global Conference on Flexible Systems Management Indian Institute of Management Theme: Flexibility, Resilience and Sustainability during 21-23 April 2022
4. Chaurasia M., and Srivastava, K. (2022) "Assessing the Impact of Advertisement on Consumer Purchase Intention for Prestigious Apparel Brands: Mediating Role of Masstige" presented in the International Conference on 'Shaping the Future of Management Education for Sustainable Emerging Economies' (SFME 2022) organized by DoMS IITRoorkee. for
5. Saini, A., & Mishra, S. K. (2023, March). Does the Need for Uniqueness, Attitude and Perceived Value have a role in determining Choice Behavior? The moderating role of Green Familiarity. International Conference on Sustainable Business Management, IIT Roorkee.
6. Kumar, A., Choudhary, R. & Mishra, S. K. (2023, March). Why Do Consumers Buy Handicraft Products? Do The Intention Leads to Advocacy: An Extension of TPB Model. International Conference on Sustainable Business Management, IIT Roorkee.
7. Choudhary, R., Kumar, A., & Mishra, S. K. (2023, March). Do Emotions have a Role in Shaping Consumers' Purchase Intention towards Handicraft Products. International Conference on Sustainable Business Management, IIT Roorkee.
8. Kumar, A., & Mishra, S. K. (2022, November). Has the Time Arrived for NFC- based Mobile Payments in India: An Empirical Investigation. International Conference on 'Shaping the Future of Management Education for Sustainable Emerging Economies (SFME 2022)', IIT Roorkee.
9. Saini, A., & Mishra, S. K. (2022, November). Does Green Familiarity, Mindful Consumption and Parasocial Relationships Influence Green Product Repurchase Intention? An Empirical Investigation of Indian Consumers. International Conference on 'Shaping the Future of Management Education for Sustainable Emerging Economies (SFME 2022)', IIT Roorkee.
10. Singh, V., & Mishra, S. K. (2022, November). An extended VT model to predict the intention to use Digital Currency in India. International Conference on 'Shaping the Future of Management Education for Sustainable Emerging Economies (SFME 2022)', IIT Roorkee.

अध्याय 10

कंप्यूटर विज्ञान और अभियांत्रिकी विभाग

स्थापना का वर्ष: 2020

विभागाध्यक्ष: डॉ. सुषम विश्वास 1-07-2020

विभाग/केंद्र का संक्षिप्त परिचय

कंप्यूटर विज्ञान और इंजीनियरिंग विभाग की स्थापना जुलाई 2020 में हुई थी। जिसमें सत्र 2021-22 के लिए प्रवेश लेना शुरू किया गया था। विभाग में 4 संकाय सदस्य और 150+ स्नातक छात्र और 9 शोध विद्वान हैं।

अनुसंधान के प्रमुख क्षेत्र

जियोइंफॉर्मेटिक्स, सूचना सुरक्षा, ब्लॉकचेन, इमेज प्रोसेसिंग और रियल-टाइम शेड्यूलिंग, क्लाउड कंप्यूटिंग, मेडिकल इमेज विश्लेषण, फॉग कंप्यूटिंग, क्राउडसोर्सिंग, टीम गठन और संसाधन आवंटन, सॉफ्टवेयर डिफाईड नेटवर्किंग, मशीन लर्निंग/डीप लर्निंग एप्लीकेशन, सोशल नेटवर्क के लिए ग्राफ न्यूट्रल नेटवर्क विश्लेषण

आधारभूत संरचना

क्र. सं.	विवरण	संख्या
1	कक्षाओं की संख्या	02
2	व्याख्यान कक्षाओं की संख्या	02
3	प्रयोगशाला की संख्या	04
4	विभाग/केंद्र/केंद्र में छात्रों के लिए उपलब्ध कंप्यूटरों की संख्या	260

नए पाठ्यक्रम शुरू किए गए

क्र. सं.	पाठ्यक्रम कोड	पाठ्यक्रम का नाम	पाठ्यक्रम क्रेडिट
1	CS161M	Technology-led Disruption-New India	04

छात्र संख्या

क्र. सं.	कार्यक्रम	I वर्ष	II वर्ष	III वर्ष	V वर्ष और अधिक	V Year & above
1.	बी.टेक	153	84	67	0	0
2.	दोहरी डिग्री	36	25	0	0	0
3.	पीएच.डी. (संस्थान फैलोशिप के तहत)	0	4	1	0	0
4.	पीएच.डी. (प्रायोजित श्रेणी के अंतर्गत)	0	0	0	1	0

छात्रों/विद्वानों के नाम जिन्होंने विदेश में या भारत में सम्मेलनों/कार्यशालाओं/सेमिनारों और संगोष्ठियों में भाग लिया

क्र. सं.	छात्र का नाम	रोल नंबर	सम्मेलन/संगोष्ठी/संगोष्ठी/कार्यशाला	दिनांक एवं स्थान	वित्तीय सहायता
भारत					
1	आर्यमान राज, इशिता श्रीवास्तव	20CS3011, 20CS3034,	IEEE RAIT IEEE conference.	3-5 मार्च 2023	आरजीआईपीटी
2	अद्वैत गुप्ता, मनन पडसाला	20CS3072, 20CS3038,	IEEE conference	2023	आरजीआईपीटी

संस्थान के बाहर पुरस्कार एवं पुरस्कार प्राप्त करने वाले विद्यार्थियों/विद्वानों के नाम

क्र.सं.	छात्र का नाम	रोल नंबर	पुरस्कार का नाम	तिथि और स्थान	पुरस्कार दिया गया
1	आर्यमान राज	20CS3011	UNESCO India Africa Hackathon	Gautam Buddha University, Uttar Pradesh, 2022	Finalist
2	तन्मय बिसेन	20CS3064	UNESCO India Africa Hackathon	Gautam Buddha University, Uttar Pradesh, 2022	Finalist
3	सार्थक सकसैना	20CS3057	UNESCO India Africa Hackathon	Gautam Buddha University, Uttar Pradesh, 2022	Finalist
4	तन्मय बिसेन	20CS3064	Singapore India Hackathon 2023.	IIT Gandhinagar, Gujarat, 2023	Finalist
5	आस्था शैला-	20CS3001	Singapore India Hackathon 2023.	IIT Gandhinagar, Gujarat, 2023	Finalist
6	आयुष राठौड़, शरदेदु शेखर चौबे और लोकेश यादव	20CS3018, 20CS3059, 20CS3037	Hackistica Hackathon, 2022	IIT Indore Madhya Pradesh	Finalist

वार्षिक प्रतिवेदन 2022-2023

विदेशी इंटरनशिप के लिए गए छात्रों/विद्वानों के नाम

क्र. सं.	छात्र का नाम	रोल नंबर	Name of the Organization	इंटरनशिप का स्थान	देश	अवधि
1	दीपांशु गोयल	20CS3024	Hong Kong University	Pok Fu Lam	Hong Kong	6 Month

संकाय और उनकी गतिविधि

संकाय और विशेषज्ञता के उनके क्षेत्र

क्र. सं.	नाम, योग्यताएं, कर्मचारी संख्या	पीएचडी डिग्री प्रदान करने की तिथि	विशेषज्ञता के प्रमुख क्षेत्र (अधिकतम 3 क्षेत्र)
एसोसिएट प्रोफेसर			
1	डॉ. सुषम विश्वास	जून 2011	Geoinformatics, Image Processing, LiDAR, Remote Sensing, AI/ML, UAV, AR/VR
सहायक प्रोफेसर			
1	डॉ. दया सागर गुप्ता	01 दिसंबर 2018	Information Security, IoT Security, Blockchain
2	डॉ. गार्गी श्रीवास्तव	31 जनवरी 2020	Computer Vision, Image Processing
3	डॉ. नीरज कुमार	21 जून 2021	Real-time and Cyber-Physical Systems, Edge-Cloud Systems, Computational Geometry
4	डॉ. राहुल कुमार	दिसंबर 2021	Medical Image Analysis, Health Care, Computer Vision, Artificial Intelligence
5	डॉ. कालका दुबे	05 जुलाई 2021	Cloud Computing, Fog Computing, IoT, Virtualization
6	डॉ. पल्लबी सैकिया	दिसंबर 2018	Machine Learning/Deep Learning Applications, AI-based Generative models for computer vision,
7	डॉ. आकाश यादव	दिसंबर 2022	Crowdsourcing, Team Formation and Resource Allocation, Approximation Algorithms, Software Defined Networking

तकनीकी और गैर-शिक्षण कर्मचारी

क्र.सं.	नाम, योग्यता	पदनाम, कर्मचारी संख्या	विभाग में नियुक्ति की तिथि
1.	श्री अनिल कुमार वर्मा	सहायक प्रणाली अधिकारी	28-12-2010
2.	सुश्री नेहा पांडे	सहायक - प्रथम	07.01.2022
3.	श्री त्रिविक्रम	तकनीशियन -प्रथम	10.01.2022

सेमिनार/संगोष्ठी/सम्मेलन

क्र. सं.	संकाय सदस्य का नाम	शीर्षक	अवधि और स्थान
1.	डॉ. सुषम विश्वास	AI-enabled quality tools for data inspection for HAL Korwa	28/11/2022, One hour -Invited Lecture on AI-enabled quality tools for data inspection for HAL Korwa

अन्य संस्थानों में संकाय सदस्यों द्वारा दिए गए विशेष व्याख्यान

क्र. सं.	संकाय सदस्य का नाम	व्याख्यान का विषय	संस्था	दिनांक
1	डॉ. कालका दुबे	WiFi Security	Uttarakhand Science Education & Research (USERC), Dehradun	10.02.23

शैक्षणिक और व्यावसायिक समाजों की फैलोशिप

क्र. सं.	संकाय सदस्य का नाम	फैलोशिप का विवरण
1	डॉ. गार्गी श्रीवास्तव	IEEE
2	डॉ. गार्गी श्रीवास्तव	ACM
3	डॉ. दया सागर गुप्ता	IEEE
4	डॉ. पल्लबी सैकिया	IEEE
5	डॉ. पल्लबी सैकिया	ACM
6	डॉ. सुषम विश्वास	ISRS

पुस्तकें, मोनोग्राफ लेखक/सह-लेखक

क्र. सं.	लेखक/सह-लेखक का नाम	शीर्षक	प्रकाशक
1	Pallabi Saikia, D. Nankani, R.D. Baruah	Machine Learning Paradigm for Predicting Reservoir Property: An Exploratory Analysis", Earth Observation Data Analytics Using Machine and Deep Learning: Modern tools, applications and challenges	IET
2	Aida A Nasr, Kalka Dubey, Nirmeen El-Bahnasawy, Gamal Attiya, Ayman El-Sayed	Time and Cost-Effective Multi-Objective Scheduling Technique for Cloud Computing Environment	John Wiley & Sons, Inc.
3	Mukherjee, Anirban and Biswas S. (ed.).	Urbanization in India: Socio-Spatial-Issues-and- Dimensions Jaipur: ISBN 9788131612590 (2022)	Rawat Publishers

अनुसंधान और विकास

प्रायोजित अनुसंधान परियोजनाएँ

क्र. सं.	शीर्षक	अवधि	फंडिंग एजेंसी	राशि (लाख रुपये में)	समन्वयक
1.	Developing a Model for instrument health monitoring with a setup of transducers, camera array and processing of images using AI/ML techniques	3 वर्ष	आरजीआईपीटी	1	डॉ. गार्गी श्रीवास्तव
2	Optimised Planning for Hybrid H2 Plant Designing from water/wastewater	2022-23	आरजीआईपीटी	7.5 लाख	डॉ. सुषम विश्वास और डॉ. गुंजन अग्रहरि

अनुसंधान प्रकाशन

क्र.सं.		संख्या
1	अंतर्राष्ट्रीय पत्रिकाओं में प्रकाशित पत्रों की कुल संख्या	15
2	अंतर्राष्ट्रीय सम्मेलनों में प्रस्तुत पत्रों की कुल संख्या	09

Refereed International Journals

1. Agarwal, Sajal, Gargi Srivastava, and Yogendra Kumar Prajapati. "Dual band Vis-IR absorber using bismuth based helical metamaterial surface." *Optical and Quantum Electronics* 54.11 (2022): 772. [Citations: 6]
2. Harish Puppala, Pallabi Saikia, and Satya Pritam. "Evaluating the applicability of neural network to determine the extractable temperature from a shallow reservoir of Puga geothermal field." *International Journal of Thermofluids*, Volume 17 (2023): 100259
3. Kumar, Mohit, Kalka Dubey, Samayveer Singh, Jitendra Kumar Samriya, and Sukhpal Singh Gill. "Experimental performance analysis of cloud resource allocation framework using spider monkey optimization algorithm." *Concurrency and Computation: Practice and Experience* 35, no. 2 (2023): e7469.
4. Kumar, Mohit, Jitendra Kumar Samriya, Kalka Dubey, and Sukhpal Singh Gill. "QoS-aware resource scheduling using whale optimization algorithm for microservice applications." *Software: Practice and Experience* (2023).
5. Singh, Ranjeet Kumar, Ganesh Gupta, Tej Singh, Kalka Dubey, and Anjula Mehto. "Circulate Matrix and Compression Sensing Based Multi-Level Image Encryption." *Traitement du Signal* 39, no. 3 (2022): 853.
6. Bhadoria, R.S., Bhoj, N., Srivastav, M.K., Rahul Kumar. A machine learning framework for security and privacy issues in building trust for social networking. *Cluster Comput* (2022).
7. Zafar, Md Iltaf, Rakesh Dubey, Shruti Bharadwaj, Alok Kumar, Karan Kumar Paswan, Anubhav Srivastava, Saurabh Kr Tiwary, and Susham Biswas. "GIS Based Road Traffic Noise Mapping and Assessment of Health Hazards for a Developing Urban Intersection." In *Acoustics*, vol. 5, no. 1, pp. 87-119. MDPI, 2023.
8. Anubhava Srivastava, Susham Biswas, Rakesh Dubey, Md. Iltaf Zafar, "FCCC: Forest Cover Change Calculator User Interface for Identifying Fire Incidents in Forest Region using Satellite Data" (IJACSA) *International Journal of Advanced Computer Science and Applications*, Vol. 14, No. 7, 2023
9. Srivastava, Anubhava, Sandhya Umrao, and Susham Biswas. "Exploring Forest Transformation by Analyzing Spatial-temporal Attributes of Vegetation using Vegetation Indices." *International Journal of Advanced Computer Science and Applications* 14, no. 5 (2023).
10. Dubey, Rakesh, Shruti Bharadwaj, and Susham Biswas. "Gis Based Smart Noise Mapping To Compare Organized Traffic and Unorganized Traffic for a Developing Smartcity." *The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences* 48 (2022): 41-46.
11. Bajpai, Sushant, Nehil Shreyash, Sukriti Singh, Amir Rauf Memon, Muskan Sonker, Saurabh Kr Tiwary, and Susham Biswas. "Opportunities, challenges and the way ahead for carbon capture, utilization and sequestration (CCUS) by the hydrocarbon industry: Towards a sustainable future." *Energy Reports* 8 (2022): 15595-15616.
12. Bhatt, Arpit Kumar, and Susham Biswas "AI Enabled Road Health Monitoring System for Smart Cities". No. 9151. EasyChair, 2022.
13. Bharadwaj, Shruti, Rakesh Dubey, Md Iltaf Zafar, Rashid Faridi, Debashish Jena, and Susham Biswas. "Determination of Point-to-Point 3D Routing Algorithm Using LiDAR Data for Noise Prediction." *Applied System Innovation* 5, no. 3 (2022): 58.
15. Srivastava, A., Shruti Bharadwaj, R. Dubey, V. B. Sharma, and S. Biswas. "Mapping vegetation and measuring the performance of machine learning algorithm in lule classification in the large area using sentinel-2 and landsat-8 datasets of Dehradun as a test case." *The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences* 43 (2022): 529-535.

Proceedings of International Conferences

1. Agarwal, Sajal, and Gargi Srivastava. "Recent Advancements in Structural Health Monitoring using Optical Sensor." 2023 International Conference on Device Intelligence, Computing and Communication Technologies, (-DICCT). IEEE, 2023.
2. Prashant, G Srivastava, VP Singh. "Ensemble of Deep Learning approaches for Detection of Brain Tumor." 1st International Conference on Advancements in Smart

- Computing and Information Security,(ASCIS). Springer, 2022.
3. Advait Gupta, Manan and P. Saikia. "Detection of Pneumonia from Chest X-Ray Images Using Transfer Learning on Deep CNN", International Conference of Emerging Technology (INCET). IEEE, 2023.
 4. Bhatt, Arpit Kumar, Deepanshu Goyal, and Susham Biswas. "A Sustainable Traffic Management System for Smart Cities." In International Conference on Applications of Machine Intelligence and Data Analytics (ICAMIDA 2022), pp. 792-801. Atlantis Press, 2023.
 5. Srivastava, Anubhava, and Susham Biswas. "Analyzing Land Cover Changes over Landsat-7 Data using Google Earth Engine." In 2023 Third International Conference on Artificial Intelligence and Smart Energy (ICAIS), pp. 1228-1233. IEEE, 2023.
 6. Bharadwaj, Shruti, Kumari Deepika, Rakesh Dubey, and Susham Biswas. "Noise Prediction Using LIDAR 3D Point Data-Determination of Terrain Parameters for Modelling." In International Conference on Advances in Computing and Data Sciences, pp. 281-295. Cham: Springer International Publishing, 2022.
 7. Bhatt, Arpit, Shruti Bharadwaj, Vinamra Bhushan Sharma, Rakesh Dubey, and Susham Biswas. "An Overview of Road Health Monitoring System for Rigid Pavement By Terrestrial Laser Scanner." The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences 43 (2022): 173-180.
 8. Dubey, Rakesh, Shruti Bharadwaj, and Susham Biswas. "Automatic generation of dem using svm classifier." The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences 43 (2022): 121-127.
 9. Sharma, V. B., R. Dubey, A. Bhatt, S. Bharadwaj, A. Srivastava, and S. Biswas. "a Method for Extracting Deformation Features from Terrestrial Laser Scanner 3d Point Clouds Data in Rgipt Building." The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences 43 (2022): 267-272.
 10. Dubey, Rakesh, Shruti Bharadwaj, Vinamra Bhushan Sharma, Arpit Bhatt, and Susham Biswas. "Smart-phone-Based Traffic Noise Mapping System." The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences 43 (2022): 613-620.

पुरस्कार/उल्लेखनीय उपलब्धि

1. आईएसपीआरएस कांग्रेस, नीस, फ्रांस ने वहां चयनित 5 शोध पत्र प्रस्तुत करने के लिए छात्रों को अंतरराष्ट्रीय यात्रा और पेपर प्रस्तुति अनुदान से सम्मानित किया।
2. गुणवत्ता माह 2022 पर एचएल कोरवा के लिए डेटा निरीक्षण के लिए एआई-सक्षम गुणवत्ता उपकरणों पर आमंत्रित व्याख्यान दिया गया
3. प्रारंभिक तेल रिसाव का पता लगाने और जहाज के ऑफशोर स्मार्ट नेविगेशन पर स्मार्ट इंडिया हैकथॉन जीतने के लिए आरजीआईपीटी के पांच छात्रों की एक टीम का सफलतापूर्वक मार्गदर्शन किया।

गणितीय विज्ञान विभाग

स्थापना का वर्ष: 2021

विभागाध्यक्ष: प्रो. चंचल कुंडू जून, 2021 से

विभाग/केंद्र का संक्षिप्त परिचय

गणितीय विज्ञान विभाग का गठन 2021 में स्नातक छात्रों को सीखने और नवाचार की इच्छा के साथ सशक्त बनाने के लिए विश्व स्तरीय कम्प्यूटेशनल कौशल प्रदान करने और वर्तमान और भविष्य की उद्योग की जरूरतों को पूरा करने के लिए उच्च कुशल और सक्षम इंजीनियरों और प्रौद्योगिकीविदों को प्रदान करने के मिशन के साथ किया गया था, मुख्य रूप से देश और विदेश के ऊर्जा क्षेत्र। शीर्ष स्तर के कम्प्यूटेशनल कौशल वाले स्नातक छात्रों को तैयार करने के अलावा, विभाग का लक्ष्य संस्थान के अन्य विषयों में छात्रों के काम के लिए एक ठोस गणितीय आधार प्रदान करने के लिए सामग्री समृद्ध पाठ्यक्रम विकसित करना और वितरित करना भी है।

विभाग के पास एक जीवंत डॉक्टरेट कार्यक्रम भी है जो विभिन्न रुचियों वाले छात्रों को आकर्षित करता है और शोधकर्ताओं को उद्योग और शिक्षा दोनों की चुनौतियों का सामना करने के लिए सफलतापूर्वक तैयार करता है। अनुसंधान विद्वानों और संकाय सदस्यों को कुछ उल्लेखनीय प्रशंसाएँ मिली हैं जो विभाग में किए गए ईमानदार और उच्च गुणवत्ता वाले अनुसंधान और शिक्षण का प्रमाण हैं।

हम, गणितीय विज्ञान विभाग में, एक जीवंत और रचनात्मक वैज्ञानिक समुदाय बनने के लिए लगातार प्रयास कर रहे हैं जो अपने छात्रों को सर्वोत्तम शिक्षा प्रदान करता है और उनमें सीखने की जिज्ञासा और उत्सुकता प्रदान करता है, उन्हें उद्योगों के लिए आवश्यक कम्प्यूटेशनल कौशल से लैस करता है, और उन्हें इंजीनियरों और वैज्ञानिकों की अगली पीढ़ी बनने में मदद करें जो एक उज्ज्वल भविष्य के निर्माण में सकारात्मक योगदान दें।

अनुसंधान के प्रमुख क्षेत्र

- विश्वसनीयता सिद्धांत
- सांख्यिकीय सूचना सिद्धांत
- कम्प्यूटेशनल द्रव गतिशीलता
- अतिशयोक्तिपूर्ण संरक्षण कानून

- पीडीई की वैज्ञानिक कंप्यूटिंग
- डेटा एसिमिलेशन तकनीक
- पीडीई का संख्यात्मक विश्लेषण
- मेस फ्री मेथड
- कम्प्यूटेशनल वित्त
- अभिन्न समीकरण
- वर्णक्रमीय सिद्धांत
- कार्यात्मक विश्लेषण

आधारभूत संरचना

क्र.सं.	विवरण	संख्या
1	कक्षाओं की संख्या	1
2	व्याख्यान कक्षाओं की संख्या	1
3	प्रयोगशाला की संख्या	2
4	विभाग/केंद्र/केंद्र में छात्रों के लिए उपलब्ध कंप्यूटरों की संख्या	12

शैक्षणिक कार्यक्रमों की पेशकश

नए पाठ्यक्रम शुरू किए गए

क्र. सं.	कोर्स कोड	कोर्स का नाम	कोर्स क्रेडिट
1	MA 312	Metric Space and Topology	9
2	MA 412	Advanced Analysis	6

छात्र संख्या

क्र. सं.	कार्यक्रम	I वर्ष	II वर्ष	III वर्ष	IV वर्ष	V वर्ष और उससे अधिक
1	बी.टेक	43	21	0	0	0
2	पीएच.डी. (संस्थान फैलोशिप के तहत)	4	2	1	1	2
3	पीएच.डी. (राष्ट्रीय स्तर की छात्रवृत्ति के तहत)	0	1	2	1	0

छात्रों/विद्वानों के नाम जिन्होंने विदेश में या भारत में सम्मेलनों/कार्यशालाओं/सेमिनारों और संगोष्ठियों में भाग लिया

क्र.सं.	छात्र का नाम	रोल नंबर	सम्मेलन/संगोष्ठी/संगोष्ठी/कार्यशाला	दिनांक एवं स्थान	वित्तीय सहायता
1.	आकाश शर्मा	20BS0002	International Conference on Statistics, Probability, Data Science and Related Areas (ICSPDS2023) in conjunction with the XXXXII Annual Convention of the Indian Society for Probability and Statistics (ISPS)	04-06 January, 2023, Cochin University of Science and Technology Cochin, India	Institute RSG
2.	आकाश शर्मा	20BS0002	International Workshop on Reliability Theory and Survival Analysis (IWRTSA-2022)	23-25 December, 2022, IISER Kolkata	Institute RSG

वार्षिक प्रतिवेदन 2022-2023

क्र.सं.	छात्र का नाम	रोल नंबर	सम्मेलन/संगोष्ठी/संगोष्ठी/कार्यशाला	दिनांक एवं स्थान	वित्तीय सहायता
3.	शशांक कुमार शुक्ल	21MA0003	Advanced Instructional Schools on Advanced Linear Algebra	09/05/2022-28/05/2022 Indian Statistical Institute, Bangalore (Online)	NIL
4.	शशांक कुमार शुक्ल	21MA0003	Annual Foundation School-III	19/06/2022-16/07/2022 Indian Institute of Technology, Guwahati	Institute RSG
5.	शशांक कुमार शुक्ल	21MA0003	International Workshop on Applicable Mathematics for Science and Engineering - Recent Advances	16/02/2023-20/02/2023 VIT-AP University, Andhra Pradesh (Online)	Self
6.	पौलमी पॉल	21MA 0001	International Workshop on Reliability Theory and Survival Analysis (IWRSTA 2022)	23/12/2022-25/12/2022 IISER Kolkata	Institute RSG

संकाय और उनकी गतिविधि

संकाय और उनकी विशेषज्ञता के क्षेत्र

क्रम संख्या	नाम, योग्यताएं, कर्मचारी संख्या	पीएचडी डिग्री प्रदान करने की तिथि	विशेषज्ञता के प्रमुख क्षेत्र (अधिकतम 3 क्षेत्र)
आचार्य			
1.	आचार्य चंचल कुंडू, पीएचडी	2009	Reliability theory and statistical information theory
सह आचार्य			
1.	डॉ. मनोज कुमार राजपूत, पीएचडी	2012	Numerical analysis of PDEs, hyperbolic conservation laws and scientific computing
सहायक आचार्य			
1	डॉ. अल्पेश कुमार	2015	Mesh-free methods and numerical analysis of PDEs
2	डॉ. सुदीप कुंडू	2018	Control theory, numerical analysis and PDE
3	डॉ. प्रदीप दास	2020	Algebraic geometry and complex geometry
4	डॉ. गोविंदा रक्षित	2020	Integral equations, spectral theory and functional analysis
5	डॉ. सोनिया धामा	2020	Time scale theory and dynamical system

तकनीकी और गैर-शैक्षणिक कर्मचारी

क्र.सं.	नाम, योग्यता	पदनाम, कर्मचारी क्रमांक	विभाग में नियुक्ति की तिथि
1.	शालिनी सिंह	सहायक- III (अनुबंध पर)	20 मई, 2022

शैक्षणिक संस्थानों और सार्वजनिक क्षेत्र के उपक्रमों में संकाय सदस्यों द्वारा भाग लेने वाले अल्पकालिक पाठ्यक्रम/कार्यशालाएं/सेमिनार/संगोष्ठी/सम्मेलन/प्रशिक्षण कार्यक्रम

क्रमांक	संकाय सदस्य का नाम	शीर्षक	अवधि और स्थान
सेमिनार/संगोष्ठी/सम्मेलन			
1.	प्रो. चंचल कुंडू	International Workshop on Reliability Theory and Survival Analysis (IWRSTA 2022)	23-25/12/2022, IISER Kolkata
2.	डॉ. प्रदीप दास	Vector bundles in	Feb 6-Feb 11, 2023 at IIT Madras Chennai
3.	डॉ. सुदीप कुंडू	International Conference on Advances in Applied and Computational Mathematics (ICAACM-21)	TIFR-CAM, 28-30, April, 2022 (online)
4.	डॉ. सुदीप कुंडू	Conference on PDE and NA	IIT Bombay, 5, lecture, 19-26 June, 2022

अन्य संस्थानों में संकाय सदस्यों द्वारा दिए गए विशेष व्याख्यान

क्र.सं.	संकाय सदस्य का नाम	व्याख्यान का विषय	संस्थान	दिनांक
1	डॉ. अल्पेश कुमार	Operator Splitting Methods for American Option Pricing	Centre for Data Science, ITER Siksha 'O' Anusandhan (Bhubaneswar)	January 21, 2023
2	डॉ. सोनिया धामा	Time Scales Calculus (Theory)	Centre for Data Science, ITER Siksha 'O' Anusandhan (Bhubaneswar)	Oct 29, 2022

पत्रिकाओं के संपादकीय बोर्ड

क्र.सं.	संकाय सदस्य का नाम	पद (संपादक/ सदस्य)	जर्नल का नाम
1.	डॉ. गोविंदा रक्षित	Editorial Board Member	Applied and Computational Mathematics

अनुसंधान और विकास

प्रायोजित अनुसंधान परियोजनाएँ

क्र. सं.	शीर्षक	अवधि	फंडिंग एजेंसी	राशि (लाख रुपये में)	समन्वयक
1.	Theoretical and Numerical study of radial basis function based scattered node combined compact finite difference method	2023-2025	SERB	6.60	Dr. Alpesh Kumar
2.	Closed Loop Control for Parabolic type Problems: Theory and Computation, Start-up research grant project	28 Dec 2022-27 Dec 2024	DST SERB	13.20	Dr. Sudeep Kundu

अनुसंधान प्रकाशन

क्र.सं.		सं.
1.	अंतर्राष्ट्रीय पत्रिकाओं में प्रकाशित पत्रों की कुल संख्या	8
2.	अंतर्राष्ट्रीय सम्मेलनों में प्रस्तुत पत्रों की कुल संख्या	1

Refereed International Journals

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- Sharma, A. and Kundu, C. (2023), Varentropy of doubly truncated random variable. Probability in the Engineering and Informational Sciences, Vol. 37, pp. 852-871.
- Singh, S. and Kundu, C. (2022), On weighted generalized entropy for double truncated distribution with applications. Communications in Statistics- Theory & Methods, DOI: 10.1080/03610926.2022.2150821. Online First.
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- G. Rakshit. (2023), Asymptotic error analysis for the discrete iterated Galerkin solution of Urysohn integral equations with Green's kernels. Accepted for publication in Advances in Applied Mathematics and Mechanics.
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Proceedings of International Conferences

- Tomar, S., Dhama, S., Vajravelu, K. (2022). An Effective Scheme for Solving a Class of Second-Order Two-Point Boundary Value Problems. Mathematics and Computing. ICMC 2022. Springer Proceedings in Mathematics & Statistics, vol 415. Springer, Singapore.

Brief Details of 5 Articles from the Department/Centre with maximum no. of Citations in last 5 years

- Kundu, C. and Patra, A. (2018), Some results on residual life and inactivity time at random time. Communications in Statistics- Theory & Methods, Vol. 47, pp. 372-384.
- Ghosh, A. and Kundu, C. (2018), On generalized conditional cumulative past inaccuracy measure. Applications of Mathematics, Vol. 63, pp. 167-193.
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4. Kumar, A., Bhardwaj, A, and Dubey S. (2021), A local meshless method to approximate the time-fractional telegraph equation. Engineering with Computers, Vol 37, pp. 3473–3488.
5. VS Yadav, N Ganta, B Mahato, MK Rajpoot, YG Bhumkar (2022). New time-marching methods for compressible Navier-Stokes equations with applications to aeroacoustics problems. Applied Mathematics and Computation 419, 126863, 2022.

S. No.	Name of Faculty Member	Purpose of Visit	Date and Venue
3	Prof Jitendra Kumar, IIT Ropar	Departmental lecture series	February 15, 2023 (Online mode)

Paper Reviewed by Dr. C. Kundu for the following Journals:

- i. Mathematical Reviews by American Mathematical Society (MR 123629).
- ii. Communications in Statistics- Theory and Methods by Taylor & Francis Group.
- iii. Stochastic Models by Elsevier.
- iv. Communications in Statistics- Simulation and Computation by Taylor & Francis Group.
- v. Statistics and Probability Letters by Elsevier.
- vi. Statistical Papers by Springer.

Other activities

Indian Faculty visits in the Department/Centre/ Centre

S. No.	Name of Faculty Member	Purpose of Visit	Date and Venue
1.	Prof. Harish Kumar, IIT Delhi	Departmental lecture series	November 3, 2022 (online mode)
2.	Prof. Akash Anand, IIT Kanpur	Departmental lecture series	January 18, 2023, (online mode)

कम्प्यूटिंग एवं सूचना सेवा केन्द्र (सीसीआईएस)

नेटवर्क कनेक्टिविटी और इंटरनेट

सीसीआईएस ओएफसी वास्तुकला के माध्यम से शैक्षणिक भवनों, छात्रों के पुराने और नए दोनों छात्रावासों, केंद्रीय पुस्तकालय, प्रशासनिक भवन, विवेकानंद व्याख्यान कक्ष, वाणिज्यिक परिसर, अतिथि छात्रावास, स्वास्थ्य केंद्र और कर्मचारी निवासों सहित पूरे परिसर में निर्बाध गीगाबिट नेटवर्क कनेक्टिविटी प्रदान करता है। इंटरनेट का उपयोग 1 जीबीपीएस लैन और वाईफाई के नेशनल नॉलेज नेटवर्क (एनकेएन) से 1:1 की समर्पित लीज लाइन द्वारा प्रदान किया जाता है। संस्थान राष्ट्रीय ज्ञान नेटवर्क (एनकेएन) का एक हिस्सा है जिसके तहत सभी राष्ट्रीय स्तर के संस्थान हाई-स्पीड फाइबर नेटवर्क के माध्यम से जुड़े हुए हैं।

उच्च प्रदर्शन कंप्यूटिंग (एचपीसी) क्लस्टर (1 मास्टर + 8 नोड्स)

सीसीआईएस में स्थापित एचपीसी सुविधा का उपयोग गणितीय, भौतिक और इंजीनियरिंग समस्याओं के समाधान के लिए किया जाता है। अनुप्रयोगों के मुख्य क्षेत्र संख्यात्मक जलाशय सिमुलेशन, बहुचरण प्रवाह, छिद्रपूर्ण मीडिया के माध्यम से प्रवाह, आणविक गतिशीलता का अनुकरण, भूकंपीय तरंग प्रसार और मजबूत/प्राकृतिक संवहन प्रभुत्व प्रवाह जैसे हैं। वर्तमान में, एचपीसी क्लस्टर में नौ (एक मास्टर और आठ कंप्यूटर) नोड्स (Fujitsu PR3000) हैं और प्रत्येक नोड में 20 कोर/प्रोसेसर (कुल 180 कोर के साथ) के साथ डुअल प्रोसेसर है। HPC क्लस्टर में गॉसियन और Tec360 जैसे सॉफ्टवेयर भी हैं।

संस्थान मेल सर्वर (Google Apps)

संस्थान के मेलिंग समाधान के लिए हमने क्लाउड बेस एजुकेशन गूगल ऐप मेल सर्वर का उपयोग किया है, जिसमें हम 10,000 मेल उपयोगकर्ता बनाएंगे और प्रत्येक उपयोगकर्ता के पास उसके मेल बॉक्स के लिए 25 जीबी गूगल ऐप क्लाउड स्पेस होगा। और Google ऐप्स व्यवस्थापक के पास सभी संगठन स्तरीय मेल/समूह मेल आईडी सुरक्षा नीति को लागू करने की सभी पहुंच है।

ऑडिओरियम ए/वी सिस्टम

ऑडिओरियम हरमन और जेबीएल 7.1 ऑडियो/वीडियो सिस्टम और इंटरैक्टिव सिस्टम के साथ लाइव स्ट्रीमिंग वीडियो कॉन्फ्रेंसिंग से सुसज्जित है।

एचए मोड में ईपीएबीएक्स सर्वर (2 पीआरआई सिस्टम के साथ 500 उपयोगकर्ताओं के लिए आईपी आधारित लैंडलाइन फोन)

RAID 5 सेटिंग के साथ 500 उपयोगकर्ताओं के समर्थन के साथ सिस्को BE6000H EPABX सर्वर, 64 जीबी DDR4-2400 MHZ-RDIMM/PC4-19200/सिंगल रैंक/X4/1.2v 770W AC हॉट प्लग पावर सप्लाय 1 U C-सीरीज़ रैंक सर्वर के लिए, 300x8 जीबी 12 जी एसएस 10 के आरपीएम एसएसएफ एचडीडी।

आईटी रूम सर्वर सुविधाएं

कुल 13 नंबर वाले उच्च स्तरीय एचपी, डेल और फ्यूजनस्टोर वाले संस्थान हमारे आईटी सर्वर रूम में सर्वर बनाते हैं। इनका उपयोग सभी संस्थान नेटवर्क

लाइसेंस सेवाओं, संस्थान वेब एप्लिकेशन, लाइब्रेरी प्रबंधन सोल सॉफ्टवेयर, नेटवर्क स्टोरेज, डेटाबेस आदि को चलाने में किया जाता है।

अपग्रेड इंस्टीट्यूट यूनिफाइड थ्रेट मैनेजमेंट सिस्टम

गेटवे फ़ायरवॉल के रूप में यूटीएम सोफोस एक्सजी फ़ायरवॉल हार्डवेयर का उपयोग करने वाले इस संस्थान के लिए, सोफोस यूनिफाइड थ्रेट मैनेजमेंट उपकरण वेब, एप्लिकेशन और उपयोगकर्ता पहचान-आधारित नीति नियंत्रण की अनुमति देकर हमारे संस्थान को सुनिश्चित सुरक्षा, कनेक्टिविटी और उत्पादकता प्रदान करते हैं। यह आईपी पते के बजाय उपयोगकर्ता नाम द्वारा हमलों के स्रोत में तत्काल दृश्यता प्रदान करके संस्थान की सुरक्षा में गति जोड़ता है - सुरक्षा बहाल करने के लिए तत्काल उपचार की अनुमति देता है या सक्रिय सुरक्षा की अनुमति देता है सोफोस मल्टी-कोर तकनीक अपनी सभी सुरक्षा सुविधाओं के समानांतर प्रसंस्करण की अनुमति देती है - बिना सुरक्षा सुनिश्चित करना समझौतापत्रक प्रदर्शन

400 नंबर के एक्सेस प्वाइंट के एचए मोड में परिसर वाई-फाई कंट्रोलर

सिस्को वाई-फाई नियंत्रक (सिस्को-5520) 1500 एक्सेस प्वाइंट की स्केलेबिलिटी के साथ 2x10 गीगाबिट ईथरनेट इंटरफेस या 2 गीगाबिट ईथरनेट इंटरफेस का विकल्प। इसमें 400 एक्सेस प्वाइंट को सपोर्ट करने के लिए इनबिल्ट लाइसेंस है। परिसर नवीनतम सिस्को इनडोर और आउटडोर एक्सेस पॉइंट से सुसज्जित है।

सॉफ्टवेयर सेवाएं

संस्थान के पास कई यूजी/पीजी शिक्षण और अनुसंधान उद्देश्य लाइसेंस प्राप्त सॉफ्टवेयर हैं जैसे मैटलैब, ऑटोकैड, आईबीएम एसपीएसएस और एएमओएस, ओरिजिन, एस्पेन प्लस, कप्पा, गॉसियन और गॉस व्यू, रेडास, सीएमजी, कॉमसोल, एंसिस, किंगडम, ओपनटेक, ईव्यूज, एरिना, आर्कव्यू, पाथव्यू आदि।

स्नातक कंप्यूटर प्रयोगशाला और कक्षाएं

संस्थान ने विंडोज और फेडोरा ऑपरेटिंग सिस्टम (ओएस) के साथ तीन अलग-अलग प्रयोगशालाओं में 190 डेस्कटॉप मशीनें तैयार की हैं, प्रत्येक प्रयोगशाला में सभी आवश्यक शिक्षण प्रयोगशाला सॉफ्टवेयर के साथ 63 नंबर की उच्च डेस्कटॉप मशीनें और अतिरिक्त 14 नंबर की उच्च डेस्कटॉप मशीनें हैं। अपने अनुसंधान और शिक्षण उद्देश्य के लिए छात्रों की सामान्य पहुंच के लिए सभी 16 नंबर की शैक्षणिक कक्षाएँ मल्टीमीडिया प्रोजेक्टर सिस्टम से सुसज्जित हैं और जिनमें 6 नंबर की बड़ी कक्षाएँ मल्टीमीडिया इंटरैक्टिव डिजिटल पोडियम सिस्टम से सुसज्जित हैं।

ऑनलाइन कक्षाएं, बैठकें और वीडियो कॉन्फ्रेंसिंग सुविधाएं

संस्थान के पास यूजी/पीजी ऑनलाइन कक्षाओं और वेब मीटिंग के लिए 06 सिस्को वेबेक्स प्रशिक्षण और 4 जूम मीटिंग लाइसेंस सॉफ्टवेयर है, हमारे 4 सम्मेलन कक्ष सभी ऑनलाइन वेब मीटिंग, कॉन्फ्रेंसिंग और प्रस्तुतियों के लिए हाई एंड इंटरैक्टिव कॉन्फ्रेंसिंग सिस्टम है।

अकादमिक कार्यक्रम

राजीव गांधी पेट्रोलियम प्रौद्योगिकी संस्थान (आरजीआईपीटी), जायस, भारत सरकार द्वारा स्थापित एक स्वायत्त संस्थान है। संस्थान को संसद के एक अधिनियम ("राजीव गांधी पेट्रोलियम प्रौद्योगिकी संस्थान अधिनियम 2007") के तहत भारतीय प्रौद्योगिकी संस्थान (आईआईटी) की तर्ज पर "राष्ट्रीय महत्व के संस्थान" का दर्जा दिया गया है। आरजीआईपीटी को एक ऊर्जा विशिष्ट संस्थान के रूप में तेल उद्योग विकास बोर्ड (ओआईडीबी) के सहयोग से छह प्रमुख तेल सार्वजनिक क्षेत्र इकाइयों (ओएनजीसी, आईओसीएल, ओआईएल, गेल, बीपीसीएल और एचपीसीएल) द्वारा सह-प्रवर्तित किया गया है। संस्थान पेट्रोलियम और ऊर्जा प्रौद्योगिकी क्षेत्र के अग्रणी अंतरराष्ट्रीय विश्वविद्यालयों और विशेषज्ञता वाले संस्थानों से जुड़ा हुआ है। संस्थान का मुख्य उद्देश्य पेट्रोलियम और ऊर्जा क्षेत्र की बढ़ती आवश्यकताओं को पूरा करने के लिए सक्षम मानव संसाधनों को तैयार करने के लिए विश्व स्तरीय शिक्षा, प्रशिक्षण और अनुसंधान प्रदान करना है। संस्थान बी.टेक., आईडीडी उपाधि प्रदान करता है। एमबीए कार्यक्रम के साथ विभिन्न इंजीनियरिंग विषयों में एम.टेक. कार्यक्रम संस्थान में आधारभूत विज्ञान व मानविकी, इंजीनियरिंग और प्रबंधन के विभिन्न क्षेत्रों में पीएचडी कार्यक्रम भी पेश किए जाते हैं।

संस्थान के बी.टेक. कार्यक्रमों का उद्देश्य पेट्रोलियम और ऊर्जा से संबंधित इंजीनियरिंग, विज्ञान विषयों के अग्रणी क्षेत्रों में ठोस सैद्धांतिक और प्रयोगात्मक पृष्ठभूमि के साथ जनशक्ति विकसित करना है। बहु-विषयक दृष्टिकोण का उपयोग करके संबंधित क्षेत्र में व्यावहारिक महत्व की समस्याओं को हल करने में शामिल वैज्ञानिक आधार और इंजीनियरिंग सिद्धांतों को समझने पर जोर दिया गया है। इन कार्यक्रमों का एक महत्वपूर्ण घटक छात्रों में सामाजिक जिम्मेदारी की भावना पैदा करना, स्वतंत्र सोच को बढ़ावा देना और वास्तविक समस्याओं को हल करने की दिशा में योग्यता विकसित करना है। ये कार्यक्रम उद्योग, अनुसंधान एवं विकास संगठनों और शैक्षणिक संस्थानों की जरूरतों को पूरा करने के लिए उच्चतम गुणवत्ता वाली जनशक्ति विकसित करना चाहते हैं। संस्थान को एमएचआरडी, भारत सरकार द्वारा आयोजित एनआईआरएफ मूल्यांकन में 2021 में पहली बार रैंक प्राप्त हुई। इंजीनियरिंग संस्थानों की श्रेणी में संस्थान द्वारा प्राप्त 167वीं

रैंक को इस तथ्य पर विचार करते हुए अत्यधिक प्रभावशाली कहा जा सकता है कि संस्थान सीमित छात्र संख्या के साथ अपेक्षाकृत नया है और डोमेन विशिष्ट यूजी और पीजी कार्यक्रम प्रदान करता है। अगले वर्षों में, एनआईआरएफ रैंकिंग में संस्थान को शीर्ष 50 में रखे जाने की आकांक्षा है।

अपनी ऑन-कैंपस शैक्षणिक पेशकशों को पूरा करने की दृष्टि से, आरजीआईपीटी ने शिवसागर, असम और बेंगलुरु, कर्नाटक में दो केंद्र स्थापित किए हैं। असम ऊर्जा संस्थान, शिवसागर, असम में आरजीआईपीटी का केंद्र, तेल, गैस और पेट्रोकेमिकल की आवश्यकताओं के अनुसार पेट्रोलियम क्षेत्र के विभिन्न क्षेत्रों में डिप्लोमा और एडवांस डिप्लोमा स्तर के पाठ्यक्रमों में कुशल तकनीकी जनशक्ति की शिक्षा और प्रशिक्षण के कार्यक्रम पेश करने की परिकल्पना की गई है। ऊर्जा संस्थान, बंगलुरु केंद्र को ऊर्जा क्षेत्र में अत्याधुनिक अनुसंधान आयोजित करने के साथ-साथ शैक्षणिक कार्यक्रम पेश करने का आदेश दिया गया है। यह केंद्र अनुसंधान के साथ-साथ प्रौद्योगिकी लाइसेंसिंग और व्यावसायीकरण को संभालने के लिए भी स्थापित किया गया है।

प्रवेश 2022-2023

4 वर्षीय बी.टेक. और 5-वर्षीय दोहरी डिग्री कार्यक्रमों में प्रवेश gsrq जेईई (एडवांस्ड) या जेईई (मेन्स) rFkk 12वीं कक्षा में 80% अंकों के साथ उत्तीर्ण अभ्यर्थी का चयन किया जाता है। 2-वर्षीय एम.टेक कार्यक्रम में उम्मीदवारों को GATE स्कोर के आधार पर प्रवेश दिया जाता है। कुछ अभ्यर्थियों का चयन प्रायोजित एवं क्यू.आई.पी. के अंतर्गत साक्षात्कार और या लिखित परीक्षाओं के माध्यम से भी किया गया। पीएचडी के लिए अभ्यर्थियों को गेट या जीपैट या यूजीसी/सीएसआईआर-नेट उत्तीर्ण करना होगा, चयन परीक्षण/साक्षात्कार के माध्यम से किया गया। भारत में अध्ययन के लिए विदेशी छात्रों को आकर्षित करने के लिए, संस्थान ने पीजी और पीएचडी में भारत में अध्ययन कार्यक्रम के माध्यम से भी प्रवेश लिया है। जुलाई 2022 और दिसंबर 2022 में विभिन्न कार्यक्रमों में प्रवेश पाने वाले छात्रों और शोधार्थियों की संख्या नीचे दी गई तालिका में सूचीबद्ध है।

वार्षिक प्रतिवेदन 2022-2023

आरजीआईपीटी, जायस, अमेठी

कार्यक्रम और सीटों के अनुसार (नए प्रवेश 2022-23 के बीच)															
क्र.सं.	कार्यक्रम	सीटों की संख्या	बी.टेक		दोहरी डिग्री (बी.टेक और एम.टेक)		एमबीए		एम.टेक		पीएचडी		योग		कुल योग
			पु	म	पु	म	पु	म	पु	म	पु	म	पु	म	
1	रसायन अभियांत्रिकी	59	45	10					0	0	6	2	51	12	63
2	कंप्यूटर विज्ञान एवं अभियांत्रिकी	71	57	11							1	0	58	11	69
3	इलेक्ट्रॉनिक्स अभियांत्रिकी	59	48	9							4	2	52	11	63
4	इलेक्ट्रिकल अभियांत्रिकी (प्रमुख: ई वाहन प्रौद्योगिकी)	36	30	4									30	4	34
5	सूचना प्रौद्योगिकी	59	49	9									49	9	58
6	गणित और कंप्यूटिंग	48	40	5							1	0	41	5	46
7	पेट्रोलियम अभियांत्रिकी	59	38	10					0	0	4	1	42	11	53
8	रसायन इंजीनियरिंग (प्रमुख: नवीकरणीय ऊर्जा इंजीनियरिंग)	36	12	2									12	2	14
9	कंप्यूटर विज्ञान एवं डिजाइन अभियांत्रिकी	36	27	4									27	4	31
10	कंप्यूटर विज्ञान एवं अभियांत्रिकी और आर्टिफिशियल इंटेलिजेंट में आईडीडी	48			31	6							31	6	37
11	भू-विज्ञान और इंजीनियरिंग	24	0	0									0	0	0
12	मैनेजमेंट स्टडीज	50					27	10			4	4	31	14	45
13	विज्ञान एवं मानविकी										6	3	6	3	9
** कुल		585	346	64	31	6	27	10	0	0	26	12	430	92	522

ऊर्जा संस्थान बंगलुरु (आरजीआईपीटी का केंद्र)

कार्यक्रम एवं सीटों के अनुसार (2022-23 में प्रवेशित)									
क्र.सं.	कार्यक्रम	सीटों की संख्या	एम.टेक		पीएचडी		कुल		कुल योग
			पु	म	पु	म	पु	म	
1	नवीकरणीय ऊर्जा	15	4	1			4	1	5
2	ऊर्जा में डेटा विज्ञान विशेषज्ञता	15	2	0			2	0	2
3	ऊर्जा में कृत्रिम बुद्धिमत्ता विशेषज्ञता	15	0	0			0	0	0
4	इलेक्ट्रिक वाहन प्रौद्योगिकी	20	2	1			2	1	3
5	इलेक्ट्रिकल एवं इलेक्ट्रॉनिक्स अभियांत्रिकी	0			0	0			0
6	सामग्री विज्ञान अभियांत्रिकी	0			0	0			0
7	मैकेनिकल अभियांत्रिकी	1			1	0	1		1
कुल		66	8	2	1	0	9	2	11

असम ऊर्जा संस्थान (आरजीआईपीटी का केंद्र)

कार्यक्रम और सीटों के अनुसार डेटा (नए प्रवेश 2022-23 के बीच)				
क्र. सं.	कार्यक्रम	सीटों की संख्या	डिप्लोमा	
			पुरुष	महिला
1	रसायन अभियांत्रिकी	60	14	9
2	पेट्रोलियम अभियांत्रिकी	60	23	5
3	मैकेनिकल अभियांत्रिकी	60	24	3
4	इलेक्ट्रॉनिक्स और इंस्ट्रुमेंटेशन अभियांत्रिकी	40	6	3
5	अग्नि एवं सुरक्षा अभियांत्रिकी	40	13	0
कुल		260	80	20
			100	

वार्षिक प्रतिवेदन 2022-2023

आरजीआईपीटी, जायस, अमेठी

नये प्रवेश 2022-23 में श्रेणी/लिंग-वार छात्र															
क्र. सं.	पाठ्य क्रमवार	सीटों की संख्या	अनारक्षित		ईडब्ल्यूएस		ओबीसी-एनसीएल		एससी		एसटी		योग		कुल योग
			पु	म	पु	म	पु	म	पु	म	पु	म	पु	म	
1	रसायन अभियांत्रिकी	59	13	2	7	2	14	4	9	2	2	0	45	10	55
2	कंप्यूटर विज्ञान एवं अभियांत्रिकी	71	19	9	11	1	16	0	12	0	0	0	57	11	68
3	इलेक्ट्रॉनिक्स अभियांत्रिकी	59	20	4	8	0	17	3	2	2	1	0	48	9	57
4	इलेक्ट्रिकल अभियांत्रिकी (प्रमुख: ई वाहन प्रौद्योगिकी)	36	5	1	7	0	8	2	9	0	1	1	30	4	34
5	सूचना प्रौद्योगिकी	59	12	5	9	2	17	2	11	0	0	0	49	9	58
6	गणित और कंप्यूटिंग	48	14	1	9	1	14	2	3	1	0	0	40	5	45
7	पेट्रोलियम अभियांत्रिकी	59	8	4	9	1	10	3	9	0	2	2	38	10	48
8	रसायन अभियांत्रिकी (प्रमुख: नवीकरणीय ऊर्जा अभियांत्रिकी)	36	3	2	2	0	4	0	3	0	0	0	12	2	14
9	कंप्यूटर विज्ञान एवं डिजाइन अभियांत्रिकी	36	9	1	4	0	10	2	4	1	0	0	27	4	31
10	कंप्यूटर विज्ञान एवं अभियांत्रिकी और आर्टिफिशियल इंटेलिजेंट में आईडीडी	48	11	1	3	2	15	2	2	1	0	0	31	6	37
11	भू-विज्ञान और अभियांत्रिकी	24													0
12	मैनेजमेंट स्टडीज	50	17	6	2	0	7	3	1	1	0	0	27	10	37
13	पीएचडी	37	11	10	3	1	8	1	4	0	0	0	26	12	38
कुल		622	142	46	74	10	140	24	69	8	6	3	431	91	522

असम ऊर्जा संस्थान (आरजीआईपीटी का केंद्र)

ईआईवी (आरजीआईपीटी का केंद्र)															
क्र. सं.	एम.टेक/पीएचडी	सीटों की संख्या	अनारक्षित		ईडब्ल्यूएस		ओबीसी-एनसीएल		एससी		एसटी		योग		कुल योग
			पु	म	पु	म	पु	म	पु	म	पु	म	पु	म	
1	नवीकरणीय ऊर्जा में एम.टेक	15	2	1	0	0	1	0	1	0	0	0	4	1	5
2	ऊर्जा में एम.टेक डेटा साइंस विशेषज्ञता	15	1	0	0	0	1	0	0	0	0	0	2	0	2
3	ऊर्जा में एम.टेक आर्टिफिशियल इंटेलिजेंस विशेषज्ञता	15	0	0	0	0	0	0	0	0	0	0	0	0	0
4	इलेक्ट्रिक वाहन प्रौद्योगिकी में एम.टेक	20	1	1	0	0	0	0	1	0	0	0	2	1	3
5	इलेक्ट्रिकल एवं इलेक्ट्रॉनिक्स अभियांत्रिकी में पीएचडी	0			0	0	0	0	0	0	0	0	0	0	0
	सामग्री विज्ञान अभियांत्रिकी में पीएचडी	0			0	0	0	0	0	0	0	0	0	0	0
	मैकेनिकल अभियांत्रिकी में पीएचडी	1	1	0	0	0	0	0	0	0	0	0	1	0	1
कुल		66	5	2	0	0	2	0	2	0	0	0	9	2	11

एईआई (आरजीआईपीटी का केंद्र)

नये प्रवेश 2022-23 में श्रेणी/लिंग-वार छात्र															
क्र.सं.	डिप्लोमा	सीटों की संख्या	अनारक्षित		ईडब्ल्यूएस		ओबीसी-एनसीएल		एससी		एसटी		योग		कुल योग
			पु	म	पु	म	पु	म	पु	म	पु	म	पु	म	
1	रसायन अभियांत्रिकी	60	5	4	0	0	2	3	0	1	7	1	14	9	23
2	पेट्रोलियम अभियांत्रिकी	60	6	1	0	0	8	2	2	1	7	1	23	5	28
3	मैकेनिकल अभियांत्रिकी	60	7	0	0	0	9	2	2	0	6	1	24	3	27
4	इलेक्ट्रॉनिक्स और इंस्ट्रुमेंटेशन अभियांत्रिकी	40	1	0	0	0	0	2	2	1	3	0	6	3	9
5	अग्नि एवं सुरक्षा अभियांत्रिकी	40	1	0	1	0	2	0	1	0	8	0	13	0	13
कुल		260	20	5	1	0	21	9	7	3	31	3	80	20	100

वार्षिक प्रतिवेदन 2022-2023

वर्ष के दौरान प्रवेशित छात्रों में निम्नलिखित शामिल हैं:

अनारक्षित	220
अन्य पिछड़ा वर्ग	196
ईडब्ल्यूएस	85
अनुसूचित जाति	89
अनुसूचित जनजाति	43

छात्रों/विद्वानों का नामांकन

शैक्षणिक वर्ष 2022-2023 में संस्थान के विभिन्न कार्यक्रमों में अध्ययनरत छात्रों की कुल संख्या तालिका में दी गई है

तालिका: रोल पर छात्र

आरजीआईपीटी, जायस, अमेठी

कार्यक्रम और सीटों के अनुसार डेटा (2022-23 में नामांकित)												
क्र.सं.	कार्यक्रम	बीटेक.		एमबीए		एमटेक		पीएचडी		योग		कुल योग
		पु	म	पु	म	पु	म	पु	म	पु	म	
1	रसायन अभियांत्रिकी	128	21							128	21	149
2	कंप्यूटर विज्ञान एवं अभियांत्रिकी	170	23							170	23	193
3	इलेक्ट्रॉनिक्स अभियांत्रिकी	96	11							96	11	107
4	इलेक्ट्रिकल अभियांत्रिकी (प्रमुख: ई वाहन प्रौद्योगिकी)	30	4							30	4	34
5	सूचना प्रौद्योगिकी	78	9							78	9	87
6	गणित और कंप्यूटिंग	60	6							60	6	66
7	पेट्रोलियम अभियांत्रिकी	171	11			5	1			176	12	188
	रसायन अभियांत्रिकी अभियांत्रिकी (प्रमुख: नवीकरणीय ऊर्जा अभियांत्रिकी)	12	2							12	2	14
	कंप्यूटर विज्ञान एवं डिजाइन अभियांत्रिकी	27	4							27	4	31
	कंप्यूटर विज्ञान एवं अभियांत्रिकी और आर्टिफिशियल इंटेलिजेंस में आईडीडी	52	10							52	10	62
	भू-विज्ञान और अभियांत्रिकी	0	0							0	0	0
	मैनेजमेंट स्टडीज			42	13					42	13	55
	पीएचडी							137	44	137	44	181
	कुल	824	101	42	13	5	1	137	44	1008	159	1167

ऊर्जा संस्थान बंगलुरु (आरजीआईपीटी का केंद्र)

क्र.सं.	कार्यक्रम	एम.टेक		पीएचडी		योग		कुल योग
		पु	म	पु	म	पु	म	
1	नवीकरणीय ऊर्जा	2	1	0	0	2	1	3
2	ऊर्जा में डेटा विज्ञान विशेषज्ञता	1	0	0	0	1	0	1
3	ऊर्जा में कृत्रिम बुद्धिमत्ता विशेषज्ञता	0	0	0	0	0	0	0
4	इलेक्ट्रिक वाहन प्रौद्योगिकी	2	1	0	0	2	1	3
5	इलेक्ट्रिकल एवं इलेक्ट्रॉनिक्स अभियांत्रिकी	0	0	0	0	0	0	0
6	सामग्री विज्ञान अभियांत्रिकी	0	0	0	0	0	0	0
7	मैकेनिकल अभियांत्रिकी	0	0	1	0	1	0	1
	कुल	5	2	1	0	6	2	8

असम ऊर्जा संस्थान (आरजीआईपीटी का केंद्र)

क्र.सं.	कार्यक्रम	डिप्लोमा	
		पु	म
1	रसायन अभियांत्रिकी	54	24
2	पेट्रोलियम अभियांत्रिकी	68	15
3	मैकेनिकल अभियांत्रिकी	71	8
4	इलेक्ट्रॉनिक्स और इंस्ट्रुमेंटेशन अभियांत्रिकी	31	10
5	अग्नि एवं सुरक्षा अभियांत्रिकी	37	6
	कुल	261	63
		324	

वार्षिक प्रतिवेदन 2022-2023

सूची में श्रेणी/लिंग-वार छात्र

आरजीआईपीटी, जायस, अमेठी

क्र. सं.	पाठ्यक्रम वार	अनारक्षित		ईडब्ल्यूएस		ओबीसी-एनसीएल		एससी		एसटी		योग		कुल योग
		पु	म	पु	म	पु	म	पु	म	पु	म	पु	म	
1	रसायन अभियांत्रिकी	41	8	16	4	43	6	22	3	6	0	128	21	149
2	कंप्यूटर विज्ञान एवं अभियांत्रिकी	58	21	35	2	48	0	29	0	0	0	170	23	193
3	इलेक्ट्रॉनिक्स अभियांत्रिकी	39	5	17	1	33	3	6	2	1	0	96	11	107
4	इलेक्ट्रिकल अभियांत्रिकी (प्रमुख: ई वाहन प्रौद्योगिकी)	5	1	7	0	8	2	9	0	1	1	30	4	34
5	सूचना प्रौद्योगिकी	23	5	14	2	26	2	15	0	0	0	78	9	87
6	गणित और कंप्यूटिंग	23	2	15	1	18	2	4	1	0	0	60	6	66
7	पेट्रोलियम अभियांत्रिकी	55	5	32	1	52	4	32	0	5	2	176	12	188
8	रसायन अभियांत्रिकी (प्रमुख: नवीकरणीय ऊर्जा इंजीनियरिंग)	3	2	2	0	4	0	3	0	0	0	12	2	14
9	कंप्यूटर विज्ञान एवं डिजाइन इंजीनियरिंग	9	1	4	0	10	2	4	1	0	0	27	4	31
10	कंप्यूटर विज्ञान एवं इंजीनियरिंग और आर्टिफिशियल इंटेलिजेंट में आईडीडी	22	3	5	2	19	3	6	2	0	0	52	10	62
11	भू-विज्ञान और इंजीनियरिंग											0	0	0
12	मैनेजमेंट स्टडीज	25	8	5	0	9	4	3	1	0	0	42	13	55
13	पीएचडी	63	24	17	4	38	14	18	2	1	0	137	44	181
	कुल	366	85	169	17	308	42	151	12	14	3	1008	159	1167

ऊर्जा संस्थान बंगलुरु (आरजीआईपीटी का केंद्र)

क्र. सं.	एम.टेक/पीएचडी	अनारक्षित		ईडब्ल्यूएस		ओबीसी-एनसीएल		एससी		एसटी		योग		Grand Total
		पु	म	पु	म	पु	म	पु	म	पु	म	पु	म	
1	एम.टेक नवीकरणीय ऊर्जा	2	1	0	0	0	0	0	0	0	0	2	1	3
2	ऊर्जा में एम.टेक डेटा साइंस विशेषज्ञता	0	0	0	0	1	0	0	0	0	0	1	0	1
3	ऊर्जा में एम.टेक आर्टिफिशियल इंटेलिजेंस विशेषज्ञता	0	0	0	0	0	0	0	0	0	0	0	0	0
4	एम.टेक इलेक्ट्रिक वाहन प्रौद्योगिकी	1	1	0	0	0	0	1	0	0	0	2	1	3
5	पीएचडी	1	0	0	0	0	0	0	0	0	0	1	0	1
	कुल	4	2	0	0	1	0	1	0	0	0	6	2	8

असम ऊर्जा संस्थान (आरजीआईपीटी का केंद्र)

क्र.सं.	डिप्लोमा	अनारक्षित		ईडब्ल्यूएस		ओबीसी-एनसीएल		एससी		एसटी		योग		कुल योग
		पु	म	पु	म	पु	म	पु	म	पु	म	पु	म	
1	रसायन अभियांत्रिकी	13	6	0	0	27	10	5	5	9	3	54	24	78
2	पेट्रोलियम अभियांत्रिकी	19	3	2	0	30	10	12	2	5	0	68	15	83
3	मैकेनिकल अभियांत्रिकी	18	1	0	0	39	5	6	1	8	1	71	8	79
4	इलेक्ट्रॉनिक्स और इंस्ट्रुमेंटेशन अभियांत्रिकी	12	0	0	0	12	7	3	1	4	2	31	10	41
5	अग्नि एवं सुरक्षा अभियांत्रिकी	13	2	0	0	16	4	3	0	5	0	37	6	43
	कुल	75	12	2	0	124	36	29	9	31	6	261	63	324

वर्ष के दौरान भर्ती छात्रों में निम्नलिखित शामिल थे:

अनारक्षित	544
अन्य पिछड़ा वर्ग	511
ईडब्ल्यूएस	188
अनुसूचित जाति	202
अनुसूचित जनजाति	54
विदेशी छात्र (अनारक्षित में शामिल)	3

वर्ष बी.टेक. रोल पर छात्र

क्र.सं.	शाखा	2022	2021	2020	2019	कुल
1	रसायन अभियांत्रिकी	55	12	18	64	149
2	कंप्यूटर विज्ञान एवं अभियांत्रिकी	68	58	67		193
3	इलेक्ट्रॉनिक्स इंजीनियरिंग	57	19	31		107
4	इलेक्ट्रिकल अभियांत्रिकी					
5	(प्रमुख: ई वाहन प्रौद्योगिकी)	34				34
6	सूचना प्रौद्योगिकी	58	29			87
7	गणित और कंप्यूटिंग	45	21			66
8	पेट्रोलियम अभियांत्रिकी	48	27	44	63	182

राजीव गाँधी पेट्रोलियम प्रौद्योगिकी संस्थान

वार्षिक प्रतिवेदन 2022-2023

क्र.सं.	शाखा	2022	2021	2020	2019	कुल
9	रसायन अभियांत्रिकी (प्रमुख: नवीकरणीय ऊर्जा इंजीनियरिंग)	14				14
10	कंप्यूटर विज्ञान एवं डिजाइन अभियांत्रिकी	31				31
11	कंप्यूटर विज्ञान एवं इंजीनियरिंग और आर्टिफिशियल इंटेलिजेंट में आईडीडी	37	25			62
12	भू-विज्ञान और अभियांत्रिकी					0
कुल		447	191	160	127	925

डिप्लोमा छात्र ऑन रोल

क्र. सं.	शाखा	2022		2021		2020		योग		कुल योग
		पु	म	पु	म	पु	म	पु	म	
1	रसायन अभियांत्रिकी	14	9	24	7	30	17	68	33	101
2	पेट्रोलियम इंजीनियरिंग	23	5	32	4	36	11	91	20	111
3	मैकेनिकल इंजीनियरिंग	24	3	33	3	37	5	94	11	105
4	इलेक्ट्रॉनिक्स और इंस्ट्रुमेंटेशन इंजीनियरिंग	6	3	17	1	14	9	37	13	50
5	आग एवं सुरक्षा इंजीनियरिंग	13	0	17	1	20	5	50	6	56
कुल		80	20	123	16	137	47	340	83	423

एम.टेक. रोल पर छात्र

क्र. सं.	शाखा	2022		2021		योग		कुल योग
		पु	म	पु	म	पु	म	
1	एम.टेक. पेट्रोलियम अभियांत्रिकी में	---	---	5	1	5	1	6
2	एम.टेक. केमिकल इंजीनियरिंग में	---	---	---	---	---	---	0
3	एम. टेक. नवीकरणीय ऊर्जा में	2	1	9	2	11	3	14
4	एम. टेक. पावर और एनर्जी सिस्टम इंजीनियरिंग में	-	-	4	2	4	2	6
5	एम. टेक. ऊर्जा विज्ञान और प्रौद्योगिकी में	-	-	6	1	6	1	7
6	एम. टेक. इलेक्ट्रिक वाहन प्रौद्योगिकी में	2	1	11	3	13	4	17
7	ऊर्जा में डेटा विज्ञान विशेषज्ञता में एम.टेक	1	0			1	0	1
8	ऊर्जा में आर्टिफिशियल इंटेलिजेंस विशेषज्ञता में एम.टेक	0	0			0	0	0
कुल		5	2	35	9	40	11	51

एमबीए छात्र ऑन रोल

क्र.सं.	शाखा	2022	2021	योग
1	व्यवसाय प्रबंधन में स्नातकोत्तर	37	18	55
कुल		37	18	55

पीएचडी. रोल पर छात्र

क्र. सं.	शाखा	2022	2021	2020	2019	2018	2017	2016	2015	योग
1	पेट्रोलियम अभियांत्रिकी और जियोइंजीनियरिंग	5	13	6	1	1				26
2	रसायन अभियांत्रिकी और बायोकेमिकल अभियांत्रिकी	8	8	11	2					29

क्र. सं.	शाखा	2022	2021	2020	2019	2018	2017	2016	2015	योग
3	कंप्यूटर विज्ञान एवं अभियांत्रिकी	1	4		2	1			1	9
4	गणितीय विज्ञान	1	7		2	1	1			12
5	मैनेजमेंट स्टडीज	8	4	8	6	2	1	7		36
6	विज्ञान एवं मानविकी	9	13	11	3	6	3			45
7	इलेक्ट्रिकल एवं इलेक्ट्रॉनिक्स अभियांत्रिकी	6	7		1	1				15
8	ईआईवी	4								4
9	एईआई	5								5
कुल		47	56	36	17	12	5	7	1	181

शैक्षणिक वर्ष 2022-23 में छात्रवृत्ति प्राप्त करने वाले छात्रों की संख्या

क्र. सं.	छात्रवृत्ति का नाम	अनारक्षित	इंडब्ल्यूएस	ओबीसी-एनसीएल	अल्पसंख्यक	एससी	एसटी	कुल छात्रवृत्ति प्रदान की गई
1	उत्तर प्रदेश छात्रवृत्ति	31	---	34	2	10	---	77
2	अनुसूचित जाति के छात्रों के लिए शीर्ष श्रेणी की शिक्षा की केंद्रीय क्षेत्र छात्रवृत्ति	---	---	---	---	22	---	22
3	अनुसूचित जनजाति के छात्रों की उच्च शिक्षा के लिए राष्ट्रीय फैलोशिप और छात्रवृत्ति	---	---	---	---	---	3	3
4	ओबीसी के लिए पोस्ट मैट्रिक छात्रवृत्ति - असम	---	---	38	---	---	---	38
5	एससी-असम के लिए पोस्ट मैट्रिक छात्रवृत्ति	---	---	---	---	13	---	13
6	उच्च व्यावसायिक पाठ्यक्रमों के लिए एनईआर के छात्रों को वित्तीय सहायता (नेक मेरिट छात्रवृत्ति)	2	---	2	---	---	---	4
7	कॉलेज और विश्वविद्यालय के लिए छात्रवृत्ति की केंद्रीय क्षेत्र योजना	1	---	2	---	---	---	3
8	पूर्वोत्तर के लिए ईशान उदय विशेष छात्रवृत्ति योजना	---	---	---	---	---	1	1

वार्षिक प्रतिवेदन 2022-2023

क्र. सं.	छात्रवृत्ति का नाम	अनारक्षित	इंडब्ल्यूएस	ओबीसी-एनसीएल	अल्पसंख्यक	एससी	एसटी	कुल छात्रवृत्ति प्रदान की गई
9	अल्पसंख्यक सीएस को पोस्ट मैट्रिक छात्रवृत्ति	---	---	1	4	---	---	5
10	मुख्यमंत्री मेधावी विद्यार्थी योजना (एमएमवीवाई) छात्रवृत्ति	11	---	5	---	---	---	16
11	बिहार पोस्ट मैट्रिक छात्रवृत्ति	---	---	---	---	---	---	0
12	अभियांत्रिकी इंडिया लिमिटेड	---	---	---	---	10	---	10
13	आरजीआईपीटी मेरिट-कम-मीन्स छात्रवृत्ति	41	5	30	---	1	---	77
14	स्वामी दयानंद एजुकेशन फाउंडेशन छात्रवृत्ति	3	---	---	---	---	---	3
15	अन्य राज्य छात्रवृत्ति (झारखंड)	---	---	---	---	---	---	0
कुल		89	5	112	6	56	4	272

छात्रों को पदक और पुरस्कार प्रदान करना

दीक्षांत समारोह पुरस्कार

छठे दीक्षांत समारोह में छात्रों को पदक और पुरस्कार प्रदान किए गए

2022 में स्नातक होने वाले छात्रों के लिए

- प्रांजल माहेश्वरी**
उन्हें 2022 में कार्यक्रम में सभी बी.टेक स्नातकों के बीच शैक्षणिक उत्कृष्टता के लिए राष्ट्रपति स्वर्ण पदक से सम्मानित किया गया है।
- सिद्धार्थ जैन**
उन्हें 2022 में कार्यक्रम में सभी बी.टेक स्नातकों के बीच उत्कृष्ट सर्वांगीण प्रदर्शन के लिए निदेशक के स्वर्ण पदक से सम्मानित किया गया है।
- प्रांजल माहेश्वरी**
बी.टेक केमिकल इंजीनियरिंग परीक्षा 2022 में प्रथम स्थान प्राप्त करने के लिए उन्हें आरजीआईपीटी इंस्टीट्यूट गोल्ड मेडल से सम्मानित किया गया है।
- विधु गुप्ता**
बी.टेक पेट्रोलियम इंजीनियरिंग परीक्षा 2022 में प्रथम स्थान प्राप्त करने के लिए उन्हें आरजीआईपीटी इंस्टीट्यूट गोल्ड मेडल से सम्मानित किया गया है।
- सागरिका सिंह**
उन्हें मास्टर ऑफ बिजनेस एडमिनिस्ट्रेशन परीक्षा 2022 में प्रथम स्थान प्राप्त करने के लिए आरजीआईपीटी इंस्टीट्यूट गोल्ड मेडल से सम्मानित किया गया है।
- प्रफुल्ल कांत दुबे**

पेट्रोलियम इंजीनियरिंग परीक्षा 2021 में मास्टर ऑफ टेक्नोलॉजी में प्रथम आने के लिए उन्हें आरजीआईपीटी इंस्टीट्यूट गोल्ड मेडल से सम्मानित किया गया है।

- फहद खान**
एम.टेक है पेट्रोलियम इंजीनियरिंग परीक्षा 2022 में प्रथम स्थान प्राप्त करने के लिए उन्हें आरजीआईपीटी इंस्टीट्यूट गोल्ड मेडल से सम्मानित किया गया।
- आनंद वेंकिटरमन**
एम.टेक नवीकरणीय ऊर्जा परीक्षा 2022 में प्रथम स्थान प्राप्त करने के लिए उन्हें आरजीआईपीटी इंस्टीट्यूट गोल्ड मेडल से सम्मानित किया गया है।
- भावसार हेत संदीपभाई**
एम.टेक ऊर्जा विज्ञान और प्रौद्योगिकी परीक्षा 2022 में प्रथम स्थान प्राप्त करने के लिए उन्हें आरजीआईपीटी इंस्टीट्यूट गोल्ड मेडल से सम्मानित किया गया है।
- सुरक्षा आर**
एम.टेक इलेक्ट्रिक वाहन प्रौद्योगिकी परीक्षा 2022 में प्रथम स्थान प्राप्त करने के लिए उन्हें आरजीआईपीटी इंस्टीट्यूट गोल्ड मेडल से सम्मानित किया गया।
- अभिजीत राठौड़**
एम.टेक पावर एंड एनर्जी सिस्टम परीक्षा 2022 में प्रथम स्थान प्राप्त करने के लिए उन्हें आरजीआईपीटी इंस्टीट्यूट गोल्ड मेडल से सम्मानित किया गया है।

डिग्री प्राप्तकर्ता

- विज्ञान एवं मानविकी विभाग: 03 (पीएचडी)
- गणितीय विज्ञान विभाग: 03 (पीएचडी)
- प्रबंधन अध्ययन विभाग: 02 (पीएचडी)
- कंप्यूटर विज्ञान एवं अभियांत्रिकी विभाग: 01 (पीएचडी)
- रसायन अभियांत्रिकी और बायोकेमिकल अभियांत्रिकी विभाग: 01 (पीएचडी)
- पेट्रोलियम अभियांत्रिकी और जियोइंजीनियरिंग विभाग: 01 (पीएचडी)
- रसायन अभियांत्रिकी और बायोकेमिकल अभियांत्रिकी विभाग: 03 (एम.टेक.)
- रसायन अभियांत्रिकी और बायोकेमिकल अभियांत्रिकी विभाग: 55 (बी.टेक.)
- पेट्रोलियम अभियांत्रिकी और जियोइंजीनियरिंग विभाग: 10 (एम.टेक.)
- पेट्रोलियम अभियांत्रिकी और जियोइंजीनियरिंग विभाग: 53 (बी.टेक.)
- प्रबंधन अध्ययन विभाग: 27 (एमबीए)
- ऊर्जा संस्थान, बेंगलुरु: 42 (एम.टेक.)

असम ऊर्जा संस्थान, शिवसागर (आरजीआईपीटी के छठे दीक्षांत समारोह के एक भाग के रूप में एईआई, शिवसागर का दूसरा दीक्षांत समारोह) के छात्रों को पदक और पुरस्कार प्रदान किए गए।

- बिप्लव नेवार**
उन्हें 2022 में सभी डिप्लोमा कार्यक्रमों में अकादमिक उत्कृष्टता के लिए राष्ट्रपति के स्वर्ण पदक से सम्मानित किया गया है।

वार्षिक प्रतिवेदन 2022-2023

• अनुज कुमार शाह

उन्हें सभी डिप्लोमा कार्यक्रमों 2022 में उत्कृष्ट सर्वांगीण प्रदर्शन के लिए निदेशक के स्वर्ण पदक से सम्मानित किया गया है

• बिप्लव नेवार

उन्हें वर्ष 2022 के लिए केमिकल इंजीनियरिंग कार्यक्रम में डिप्लोमा में प्रथम स्थान प्राप्त करने के लिए आईआई, शिवसागर, असम (आरजीआईपीटी का केंद्र) संस्थान स्वर्ण पदक से सम्मानित किया गया है।

• सुदीप्त सैकिया

उन्हें वर्ष 2022 के लिए पेट्रोलियम इंजीनियरिंग कार्यक्रम में डिप्लोमा में प्रथम स्थान प्राप्त करने के लिए आईआई, शिवसागर, असम (आरजीआईपीटी का केंद्र) संस्थान स्वर्ण पदक से सम्मानित किया गया है।

• मयूर पंखी गोगोई

उन्हें वर्ष 2022 के लिए मैकेनिकल इंजीनियरिंग कार्यक्रम में डिप्लोमा में प्रथम स्थान प्राप्त करने के लिए आईआई, शिवसागर, असम (आरजीआईपीटी का केंद्र) संस्थान स्वर्ण पदक से सम्मानित किया गया है।

डिग्री प्राप्तकर्ता

- पेट्रोलियम इंजीनियरिंग विभाग: 26
- रसायन इंजीनियरिंग विभाग: 24
- मैकेनिकल इंजीनियरिंग विभाग: 23

छात्रों/विद्वानों के नाम, जिन्होंने विदेश में या भारत में सम्मेलनों/कार्यशालाओं/सेमिनारों और संगोष्ठियों में भाग लिया (ऊर्जा संस्थान बेंगलुरु, 2022-23 के लिए)

क्र. सं.	छात्र का नाम	रोल नंबर	सम्मेलन/संगोष्ठी/संगोष्ठी/कार्यशाला	दिनांक एवं स्थान	वित्तीय सहायता
1	कालिदास पी	21EB1RE15	World Energy Storage Congress 2022	December 18th 2022, Turkey (online mode)	RGIPT
2	आलोक कुमार चौधरी	21EB1EV02	International Confer-ence on Digitalization in Energy Sector by EIB	5-6 December 2022, Jayanagar Benga-luru	RGIPT
3	प्रत्यूष आनंद	21EB1RE13	1st World Energy Stor-age Conference	December 18th 2022, Turkey (online mode)	RGIPT
4	देबमाल्या साधु	21EB1RE02	2nd International Con-ference on Recent and Advanced Composite Materials	22-24 February 2023, SRMSIT	Self
5	देबमाल्या साधु	21EB1RE02	National Conference on Perovskite Society of In-dia Meet 2023	01-03 March 2023, IIT Roorkee	Self
6	देवांश दत्तात्रेय	21EB1EE03	National Conference on Perovskite Society of In-dia Meet 2023	01-03 March 2023, IIT Roorkee	Self
7	किमी. मधु पासवान	21EB1EE06	National Conference on Perovskite Society of In-dia Meet 2023	01-03 March 2023, IIT Roorkee	Self
8	मोहित दिलीप बोरसे	21EB1EE10	International Confer-ence on Functional ma-terial for advance tech-nology	2-4 January 2023, Central University of Kerala	RGIPT
9	अक्षय जैन	20EB0001	NCCBS-2023 (Hybrid Mode)	25-26 March 2023, Veer Surendra Sai University of Tech-nology	Self
10	आनंदी जी	20EB0004	International Confer-ence on Advancements and Key Challenges in Green Energy and Com-puting (AKGEC- 2023)	24-25 February 2023, in Ajay Ku-mar Garg Engineer-ing College, Gha-ziabad UP	Self
11	अनितेश आनंद	21EB0002	4th International Con-ference on Communica-tion, Devices and Com-puting (ICCDC 2023)	March 1-3, 2023 West Bengal, India	RGIPT

स्थापना वर्ष 2008

परिचय

किसी भी विश्व स्तरीय शैक्षणिक संस्थान की तरह, राजीव गांधी पेट्रोलियम प्रौद्योगिकी संस्थान का पुस्तकालय मुख्य शैक्षणिक सेवा केंद्र है। इसे पेट्रोलियम विज्ञान एवं प्रौद्योगिकी के क्षेत्र में विश्व स्तरीय शैक्षणिक पुस्तकालय एवं सूचना केंद्र के रूप में विकसित किया जा रहा है। आरजीआईपीटी का केंद्रीय पुस्तकालय वर्तमान में आरजीआईपीटी के आरजी प्लाजा में कार्य कर रहा है। इसकी इमारत केंद्रीकृत वातानुकूलित है, जो इसके पाठक के लिए आवश्यक सभी सुविधाओं और सेवाओं से सुसज्जित है। इसमें पढ़ने का अच्छा माहौल है और किताबों और अन्य पठन सामग्री को रखने के लिए पर्याप्त जगह है। इसके पुस्तकों के मुद्रित संग्रह के साथ-साथ सीडी और डीवीडी की ग्रंथ सूची का विवरण कम्प्यूटरीकृत है। आरजीआईपीटी पुस्तकालय में रसायन, कंप्यूटर, प्रबंधन, इलेक्ट्रॉनिक्स, गणित और पेट्रोलियम अभियांत्रिकी आदि से संबंधित पुस्तकों, मानक और सहकर्म-समीक्षित पत्रिकाओं का एक मजबूत विशेष संग्रह है - साथ ही ऑनलाइन मुद्रित किया जाता है। इसमें ऑनलाइन और ऑफलाइन इलेक्ट्रॉनिक्स पुस्तकालय में उपलब्ध संसाधन तक पहुंचने के लिए इंटरनेट सुविधा है।

पुस्तकालय का समय: सुबह 10:00 बजे से दोपहर 12:00 बजे तक

परीक्षा के दौरान समय: सुबह 10:00 बजे से दोपहर 02:00 बजे तक

अधिग्रहण इकाई: सभी इकाई तीन पुस्तकालय कर्मचारियों के बीच विलय हो जाती है

आवधिक अनुभाग

मुद्रित पत्रिकाएँ और जर्नल

मानक (एपीआई, ओआईएसडी, एनएफपीए)	
1.	अमेरिकी वैज्ञानिक
2.	रसायन अभियांत्रिकी
3.	फ्रंटलाइन पत्रिका
4.	तेल और गैस जर्नल
5.	भारतीय भूवैज्ञानिक सोसायटी
6.	पी सी क्वेस्ट
7.	गणित आज
8.	समाजशास्त्रीय बुलेटिन
9.	आउटलुक पत्रिका
10.	ओस
11.	अंक
12.	प्रतियोगिता दर्पण पत्रिका
13.	बिजनेस इंडिया

मानक (एपीआई, ओआईएसडी, एनएफपीए)	
14.	बिजनेस टुडे
15.	पाठक का डी
16.	इंडिया टुडे
17.	हार्वर्ड बिजनेस रिव्यू
18.	अर्थशास्त्री
19.	फ्रंटलाइन पत्रिका
20.	द वीक मैगज़ीन
21.	बी डब्ल्यू बिजनेस वर्ल्ड(+)

डेटाबेस

1. Sci-Finder (Chemical Abstract)

Standards (API, OISD, NFPA)

350

ई-पत्रिकाओं

प्रकाशक ऑनलाइन जर्नल का नाम

1. One Petro
2. ACS (American Chemical Society)
3. Emerald Management
3. IEEE
4. MathSciNet

अनुसंधान सहायता उपकरण

Thenticate – Turnitin: A plagiarism software

- तकनीकी सेवा इकाई: (सभी तीन इकाई पुस्तकालय कर्मचारियों के बीच विलय)
- सर्कुलेशन यूनिट: (सभी यूनिट तीन पुस्तकालय कर्मचारियों के बीच विलय)
- कंप्यूटर-एडेड रेफरेंस सर्विस यूनिट: ऑनलाइन पब्लिक एक्सेस कैटलॉग (ओपीएसी)
- पुस्तकालय ऑटोमेशन: सोल सॉफ्टवेयर 2.0
- डिजिटल पुस्तकालय के लिए पहल: आरएफआईडी, इनफ्लिबनेट शोधगंगा पीएच.डी. थीसिस, सदस्यता ई-शोधसिंदु
- पुस्तकों की कुल संख्या: 13399
- कोई अन्य जानकारी: पुस्तकालय इंटरफ़ेस क्यूआर कोड

अधिष्ठाता-छात्र मामले

ज्ञानार्पण: परियोजना अमेठी

ज्ञानार्पण पहल आरजीआईपीटी, जायस परिसर, अमेठी में सक्रिय रूप से लगी हुई है। यह कार्यक्रम शैक्षिक क्षमताओं को बढ़ाने, मूल्यवान शिक्षण संसाधन उत्पन्न करने, नैतिक और नैतिक मूल्यों को विकसित करने और उच्च शिक्षा गतिविधियों को परिष्कृत करने के लिए समर्पित है। यह पहल पूरे अमेठी जिले में स्थापित ज्ञानार्पण केंद्रों में अपनी कक्षाएं संचालित करती है। 1 सितंबर, 2019 से शुरू होने वाली इस परियोजना का प्राथमिक लक्ष्य अमेठी क्षेत्र के भीतर कक्षा 9वीं से कक्षा 12वीं तक के चयनित छात्रों को शिक्षा प्रदान करना है।

मुख्य उद्देश्य इन छात्रों को सशक्त बनाना और उन्हें NEET, IIT, CUET जैसी विभिन्न प्रतियोगी परीक्षाओं के साथ-साथ नवोदय विद्यालय और प्रतिष्ठित सरकारी स्कूलों जैसे संस्थानों की प्रवेश परीक्षाओं के लिए तैयार करना है। 1200 से अधिक वंचित और अनुकरणीय छात्रों को नामांकित किया गया है और इस पहल से उन्हें काफी लाभ हुआ है। एक समन्वित प्रयास में, आरजीआईपीटी और एचएएल कोरवा ने 2022-2023 के शैक्षणिक वर्ष के दौरान जिले के कुल 200 छात्रों को स्मार्टफोन प्रदान करने के लिए सहयोग किया। इस प्रगतिशील पहल के तहत 18 मई, 2022 की महत्वपूर्ण तारीख को इन स्मार्ट फोन का वितरण हुआ।



आदर्श वाक्य - "ऊर्जा के लिए दौड़" के साथ मिनी मैराथन का आयोजन

20 मई, 2022 की जीवंत सुबह, आरजीआईपीटी के उत्साही छात्र एक गतिशील मिनी-मैराथन में भाग लेने के लिए सड़कों पर उतरे, सभी प्रेरक आदर्श वाक्य के तहत एकजुट हुए: "ऊर्जा के लिए दौड़ें" इस स्फूर्तिदायक आयोजन का उद्देश्य न केवल शारीरिक फिटनेस को बढ़ावा देना है बल्कि ऊर्जा संरक्षण के महत्व के बारे में जागरूकता बढ़ाना भी है। अपने दिलों में उत्साह और अपने कदमों में दृढ़ संकल्प के साथ, प्रतिभागियों ने एक ऐसी यात्रा शुरू की जो उनके द्वारा तय किए गए मील से भी आगे निकल गई। उनके द्वारा उठाया गया हर कदम जिम्मेदार ऊर्जा उपयोग के महत्व को प्रतिध्वनित करता है, और सभी को हमारे ग्रह के संसाधनों को संरक्षित करने की सामूहिक जिम्मेदारी की याद दिलाता है। मिनी-मैराथन सिर्फ एक दौड़ नहीं थी; यह एकता और उद्देश्य का प्रतीक था। जैसे-जैसे छात्र पाठ्यक्रम में आगे बढ़ते गए, उनकी ऊर्जा और उत्साह ने एक अनुस्मारक के रूप में काम किया कि प्रत्येक व्यक्तिगत कार्रवाई एक बड़े, अधिक टिकाऊ भविष्य में योगदान दे सकती है। इस कार्यक्रम ने एक हरित और अधिक ऊर्जा-कुशल दुनिया की वकालत करने में आरजीआईपीटी छात्रों की सक्रिय भागीदारी का उदाहरण दिया। इस उद्देश्य के प्रति अपनी प्रतिबद्धता के माध्यम से, उन्होंने न केवल शारीरिक कौशल का प्रदर्शन किया बल्कि पर्यावरण पर सकारात्मक प्रभाव पैदा करने के लिए अपने समर्पण का भी प्रदर्शन किया।



योग दिवस समारोह 2022

21 जून, 2022 को आरजीआईपीटी जायस परिसर योग दिवस के उत्सव से जीवंत हो उठा। छात्र, शिक्षक और कर्मचारी स्फूर्तिदायक योग मुद्राओं और शांत ध्यान के एक सत्र में मन और शरीर को एकजुट करते हुए प्राचीन अभ्यास को अपनाने के लिए एकत्र हुए। अनुभवी प्रशिक्षकों के नेतृत्व में इस कार्यक्रम में योग के समग्र लाभों पर प्रकाश डाला गया, जिससे प्रतिभागियों के बीच एकता और कल्याण की भावना को बढ़ावा मिला। जैसे ही दिन का सूरज डूबा, आरजीआईपीटी जायस परिसर में योग दिवस समारोह ने अपने समुदाय के सदस्यों के बीच शांति और जागरूकता की एक स्थायी छाप छोड़ी।



स्वच्छता पखवाड़ा- 2022 का उत्सव

1 जुलाई से 15 जुलाई, 2022 तक, स्वच्छता पखवाड़ा की जीवंत भावना ने हमारे संस्थान में हवा का संचार किया। स्वच्छता और जागरूकता गतिविधियों के इस पखवाड़े में पेड़ से लेकर कई पहल देखने को मिलीं। वृक्षारोपण अभियान ने हमारे परिवेश में हरियाली का स्पर्श जोड़ा और परिश्रमपूर्वक प्रदूषण की जाँच की स्वस्थ पर्यावरण के प्रति हमारी प्रतिबद्धता को रेखांकित किया। प्रभात फेरी की लयबद्ध ताल गूँज उठी सुबह-सुबह, जब छात्र, संकाय सदस्य और कर्मचारी सड़कों पर उतर आए,



स्वच्छता और जिम्मेदारी के संदेश का प्रसार हुआ। स्वच्छता पखवाड़ा सिर्फ कार्यक्रमों की एक श्रृंखला नहीं थी; वह एक था हमारे समुदाय द्वारा हमारे पर्यावरण पर सकारात्मक प्रभाव डालने, बढ़ावा देने के लिए ली गई सामूहिक प्रतिज्ञा स्वच्छ, हरा-भरा और अधिक जागरूक भविष्य।

स्वतंत्रता दिवस, 2022 और गणतंत्र दिवस, 2023

आरजीआईपीटी जायस परिसर देशभक्ति के उत्साह से सराबोर था क्योंकि इसने भव्य तरीके से स्वतंत्रता दिवस 2022 और गणतंत्र दिवस 2023 मनाया। दोनों आयोजनों के दौरान, हमारे माननीय निदेशक के साथ बातचीत हुई उनके प्रेरक संबोधन से छात्रों, शिक्षकों और कर्मचारियों में नया उत्साह भर गया। उनकी बातों से सभी उपस्थित लोगों के बीच उद्देश्य और समर्पण की एक ताज़ा भावना उत्पन्न हुयी। आरजीआईपीटी छात्रों उत्साहपूर्ण भागीदारी से देश के आदर्श वाक्य 'हर घर तिरंगा' प्रति अटूट प्रतिबद्धता का प्रदर्शन करते हुए समारोह में एक जीवंत स्पर्श जोड़ा। सांस्कृतिक कार्यक्रमों से परिसर गुलजार रहा छात्रों द्वारा आयोजित कार्यक्रमों में एकता के प्रतीक के रूप में हमारे तिरंगे झंडे के महत्व पर प्रकाश डाला गया, विविधता, और प्रगति से उत्प्रेरित छात्रों द्वारा आयोजित उत्साहपूर्ण 'प्रभात फेरी' थी, जहां भोर में सामूहिक देशभक्ति और गहरे देश प्रेम को दर्शाते हुए लहराते तिरंगे का सागर देखा गया। इन समारोहों ने न केवल देश के प्रति हमारे प्रेम को जागृत किया, बल्कि उन मूल्यों को बनाए रखने में हमारी जिम्मेदारियों की याद दिलाती है जिनका प्रतिनिधित्व हमारा झंडा करता है।



दिवाली उत्सव 2022

आरजीआईपीटी ने 24 अक्टूबर को पड़ोसी गांवों के बच्चों को आरजीआईपीटी के छात्रों को एक साथ लाकर एक अनोखा दिवाली उत्सव मनाया। इस आयोजन का उद्देश्य, एकजुटता की भावना और उत्सव की भावना को बढ़ावा देना, सभी के लिए अनुभव को यादगार और समावेशी दिवाली बनाना था, जिसे हर कोई संजो कर रखेगा।



"इंट्राम्यूरल स्पोर्ट्स मीट 2022" का आयोजन

जायस परिसर में 2022 की अत्यधिक सफल इंट्राम्यूरल स्पोर्ट्स मीट के माध्यम से आरजीआईपीटी के छात्रों ने अपने उल्लेखनीय संगठनात्मक कौशल और जीवंतता का प्रदर्शन किया। छात्रों के नेतृत्व वाली यह पहल, एक सर्वांगीण शैक्षिक अनुभव को बढ़ावा देने के लिए संस्थान की प्रतिबद्धता का एक उदाहरण है। सावधानीपूर्वक योजना और उत्साहपूर्ण भागीदारी के साथ, इस कार्यक्रम में खेल और गतिविधियों की एक विविध श्रृंखला छात्र द्वारा एथलेटिकिज्म और सौहार्द के उत्सव में प्रदर्शित की गई। इंट्राम्यूरल स्पोर्ट्स मीट केवल स्वस्थ प्रतिस्पर्धा और कौशल विकास के लिए एक मंच प्रदान किया बल्कि उसकी भावना पर भी प्रकाश डाला जो समुदाय और एकता की आरजीआईपीटी लोकाचार को परिभाषित करती है।



सरस्वती पूजा उत्सव

आरजीआईपीटी की सांस्कृतिक परिषद ने पिछले वर्ष के अनुसार 26 जनवरी को एक सफल सरस्वती पूजा का आयोजन किया, आरजीआईपीटी के लगभग 250 छात्र, संकाय सदस्य और कर्मचारी ने सुबह के अनुष्ठानों में भाग लिया, जिसमें पूजा, हवन, पुष्पांजलि और प्रसाद वितरण शामिल था, कार्यक्रम दोपहर 1:00 बजे के आसपास संपन्न हुआ। संध्या आरती ने शाम 7 बजे पवित्र मंत्रों के जाप में सामूहिक भागीदारी के साथ इस अवसर की यादगारता को बढ़ाया। शाम का उत्सव रात 8 बजे तक खत्म हो गया, यादगार पलों को तस्वीरों में कैद किया गया। पूजा के बाद, विसर्जन अगले दिन सुबह 8 बजे निर्धारित किया गया था, जो फैकल्टी हाउसिंग तालाब में हुआ।



विद्यारत्नम् महद्भनम्

प्रशिक्षण और नियोजन

परिचय

प्रशिक्षण एवं नियोजन कार्यालय छात्रों के इंटरनशिप और प्रशिक्षण कार्यक्रम की स्थापना में अग्रणी संगठनों और संस्थानों के साथ सहयोग करने के अलावा संस्थान से उत्तीर्ण होने वाले छात्रों के नियोजन की प्रक्रिया को सुविधाजनक बनाता है। कार्यालय विभिन्न कंपनियों और कॉर्पोरेट घरानों आदि से संपर्क करता है जो परिसर साक्षात्कार आयोजित करते हैं और विभिन्न विषयों से स्नातक और स्नातकोत्तर छात्रों का चयन करते हैं। प्रशिक्षण और नियोजन कार्यालय अन्य सुविधाओं की पूर्ति के अलावा छात्र समूह को ऑनलाइन और ऑफलाइन चर्चा, परीक्षण और साक्षात्कार आयोजित करने के लिए बुनियादी ढांचागत सुविधाएं प्रदान करता है। प्रशिक्षण एवं नियोजन सेल उद्योगों के साथ बातचीत करता है, जिनमें से लगभग 30 कंपनियां परीक्षण और परिसर साक्षात्कार आयोजित करने के लिए परिसर में आती हैं।

नियोजन प्रक्रिया पूरे वर्ष अक्टूबर के अंतिम सप्ताह से शुरू होकर मई तक चलता है। इस संबंध में आपसी सुविधा के अनुसार प्री-प्लेसमेंट वार्ता भी आयोजित की जाती है। नौकरी की पेशकश, साक्षात्कार की तारीखें और उम्मीदवारों के चयन की घोषणा प्रशिक्षण एवं प्लेसमेंट कार्यालय के माध्यम से की जाती है। प्रशिक्षण एवं नियोजन सेल का नेतृत्व प्रोफेसर प्रभारी द्वारा किया जाता है। प्रोफेसर प्रभारी प्रशिक्षण एवं नियोजन को दो समितियों द्वारा समर्थित किया जाता है, यानी, (i) प्रशिक्षण एवं नियोजन सलाहकार समिति (टीपीएसी) और (ii) प्रशिक्षण एवं नियोजन समिति (टीपीसी)। टीपीएसी में सभी विभागों के प्रमुख शामिल हैं और इसकी अध्यक्षता प्रोफेसर प्रभारी प्रशिक्षण एवं नियोजन सेल द्वारा की जाती है। टीपीसी में संबंधित विभागों के संकाय सदस्य और स्नातक और स्नातकोत्तर इंजीनियरिंग और प्रबंधन कार्यक्रमों के छात्रों के प्रतिनिधि शामिल हैं। नियोजन प्रक्रिया छात्रों और कंपनियों की आवश्यकता से प्रेरित होती है। नीतियां छात्र और कंपनी के अनुकूल हैं।

प्लेसमेंट का विवरण			
	जायस परिसर	असम ऊर्जा संस्थान (ईआई)	ऊर्जा संस्थान बंगलुरु (ईआईबी)
नियोजन आरंभ तिथि	04.10.2022	10.03.2023	03.10.2022
नियोजन के लिए देखी गई कंपनियों की कुल संख्या	29	06	04
कुल नौकरी की पेशकश की गई	97	128	05
छात्रों को 2 ऑफर प्राप्त हो रहे हैं	06	25	02

प्लेसमेंट का विवरण			
	जायस परिसर	असम ऊर्जा संस्थान (ईआई)	ऊर्जा संस्थान बंगलुरु (ईआईबी)
छात्रों को 2 से अधिक ऑफर प्राप्त हो रहे हैं	01	NIL	01
छात्रों को 3 से अधिक ऑफर प्राप्त हो रहे हैं	NIL	NIL	NIL
प्री-प्लेसमेंट ऑफर	01	NIL	NIL
उच्चतम प्लेसमेंट पैकेज की पेशकश	INR 22.00 LPA	INR 1.80 LPA	INR 9.00 LPA
सबसे कम प्लेसमेंट पैकेज की पेशकश	INR 4.08 LPA	INR 1.44 LPA	INR 3.70 LPA
योग्य छात्रों के लिए औसत पैकेज	INR 10.21 LPA	INR 1.52 LPA	INR 5.20 LPA

नियोजन के लिए कुल योग्य छात्र

विभाग/स्कूल का नाम	बी.टेक	एम.टेक	एमबीए	डिप्लोमा
पेट्रोलियम अभियांत्रिकी (जायस कैम्पस में)	61	06	लागू नहीं	लागू नहीं
रसायन अभियांत्रिकी (जायस कैम्पस में)	60	लागू नहीं	लागू नहीं	लागू नहीं
प्रबंधन अध्ययन (जायस परिसर में)	लागू नहीं	लागू नहीं	18	लागू नहीं
मैकेनिकल अभियांत्रिकी (ईआई में)	लागू नहीं	लागू नहीं	लागू नहीं	40
रसायन अभियांत्रिकी (ईआई में)	लागू नहीं	लागू नहीं	लागू नहीं	41
पेट्रोलियम अभियांत्रिकी (ईआई में)	लागू नहीं	लागू नहीं	लागू नहीं	41
इलेक्ट्रॉनिक्स और इंस्ट्रुमेंटेशन अभियांत्रिकी (ईआई में)	लागू नहीं	लागू नहीं	लागू नहीं	17
अग्नि एवं सुरक्षा अभियांत्रिकी (ईआई में)	लागू नहीं	लागू नहीं	लागू नहीं	24
ऊर्जा विज्ञान और प्रौद्योगिकी (ईआईबी में)	लागू नहीं	07	लागू नहीं	लागू नहीं
नवीकरणीय ऊर्जा (ईआईबी पर)	लागू नहीं	11	लागू नहीं	लागू नहीं
पावर और एनर्जी सिस्टम अभियांत्रिकी (ईआईबी में)	लागू नहीं	06	लागू नहीं	लागू नहीं
इलेक्ट्रिक वाहन प्रौद्योगिकी (ईआईबी पर)	लागू नहीं	14	लागू नहीं	लागू नहीं
कुल	121	44	18	163

वार्षिक प्रतिवेदन 2022-2023

वर्ष 2022-23 में कुल योग्य छात्र

जायस परिसर	145
असम ऊर्जा संस्थान	136
ऊर्जा संस्थान बंगलुरु	38
कुल	346

2022-23 के दौरान नियोजित छात्रों की संख्या का विवरण

विभाग/विद्यालय का नाम	बी.टेक	एम.टेक	एमबीए	डिप्लोमा
पेट्रोलियम अभियांत्रिकी (जायस परिसर में)	32	शून्य	लागू नहीं	लागू नहीं
रसायन अभियांत्रिकी (जायस परिसर में)	42	लागू नहीं	लागू नहीं	लागू नहीं
प्रबंधन अध्ययन (जायस परिसर में)	लागू नहीं	लागू नहीं	15	लागू नहीं
मैकेनिकल अभियांत्रिकी (आईआई में)	लागू नहीं	लागू नहीं	लागू नहीं	39
रसायन अभियांत्रिकी (आईआई में)	लागू नहीं	लागू नहीं	लागू नहीं	25
पेट्रोलियम अभियांत्रिकी (आईआई में)	लागू नहीं	लागू नहीं	लागू नहीं	29
इलेक्ट्रॉनिक्स और इंस्ट्रुमेंटेशन अभियांत्रिकी (आईआई में)	लागू नहीं	लागू नहीं	लागू नहीं	9

विभाग/विद्यालय का नाम	बी.टेक	एम.टेक	एमबीए	डिप्लोमा
अग्नि एवं सुरक्षा अभियांत्रिकी (आईआई में)	लागू नहीं	लागू नहीं	लागू नहीं	26
ऊर्जा विज्ञान और प्रौद्योगिकी (आईआईबी पर)	लागू नहीं	03	लागू नहीं	लागू नहीं
नवीकरणीय ऊर्जा (आईआईबी पर)	लागू नहीं	06	लागू नहीं	लागू नहीं
पावर और एनर्जी सिस्टम अभियांत्रिकी (आईआईबी में)	लागू नहीं	05	लागू नहीं	लागू नहीं
इलेक्ट्रिक वाहन प्रौद्योगिकी (आईआईबी पर)	लागू नहीं	07	लागू नहीं	लागू नहीं
कुल	74	21	15	128

वर्ष 2022-23 में नियोजित छात्रों की कुल संख्या

जायस परिसर	89
असम ऊर्जा संस्थान	128
ऊर्जा संस्थान बंगलुरु	21
कुल	238

विद्यारत्नम् महद्भनम्

अंतर्राष्ट्रीय और पूर्व छात्र संबंध

परिचय

आरजीआईपीटी पूर्व छात्र संघ का उद्देश्य पूर्व छात्रों, समुदाय और आरजीआईपीटी के बीच संबंधों को बढ़ावा देना और पूर्व छात्रों को मूल संगठन के साथ प्रेरित करना और संलग्न करना है।

मिशन

आरजीआईपीटी पूर्व छात्र संघ का मिशन होगा

- अल्मा मेटर को उनके पूर्व छात्रों से पुनः कनेक्ट करें
- पूर्व छात्रों के बीच बातचीत और नेटवर्किंग के लिए एक जीवंत मंच प्रदान करना
- वर्तमान छात्रों के लिए मार्गदर्शन की भूमिका
- अपनी संभावित योजनाओं और धन जुटाने की गतिविधियों के लिए आरजीआईपीटी के साथ जुड़ना
- आरजीआईपीटी के लिए वैश्विक मान्यता और प्रदर्शन प्राप्त करना
- आरजीआईपीटी के पूर्व छात्रों और वर्तमान छात्रों के पुनर्मिलन की सुविधा प्रदान करने वाले कार्यक्रमों का आयोजन करना
- मूल संस्थान के बुनियादी ढांचे और पाठ्यक्रम विकास में भागीदारी

अन्य गतिविधियां

- आरजीआईपीटी पूर्व छात्र सेल ने आरजीआईपीटी छात्रों के लिए प्रशिक्षण और प्लेसमेंट के अवसरों से संबंधित अपने विभिन्न बैचों के पूर्व छात्रों और विभागों के प्रमुखों, संकाय सदस्यों और माननीय निदेशक, आरजीआईपीटी के साथ एक ऑनलाइन बातचीत का आयोजन किया है (17 दिसंबर 2022)
- पूर्व छात्रों को उनकी बहुमूल्य प्रतिक्रिया, सुझावों के लिए शामिल करने और हमारे छात्रों के लिए इंटरशिप, परियोजनाओं और प्लेसमेंट के अवसरों पर चर्चा करने के लिए विभाग स्तर की समितियों का गठन (2023) किया गया है, अर्थात् पूर्व छात्र सम्मिलन और परामर्श समिति।

- हमारे पूर्व छात्रों की सफलता, रचनात्मकता और उनके पेशे में अद्वितीय नवाचार को मान्यता देने के लिए, पूर्व छात्र संघ ने "यंग एलुमनी अचीवमेंट अवार्ड" की शुरुआत की है। इस पुरस्कार के लिए नामांकन प्राप्त हो चुके हैं।
- अपने पूर्व छात्रों के साथ एक मजबूत नेटवर्क बनाने के लिए, पूर्व छात्र सेल ने अल्मा कनेक्ट पोर्टल पेश किया है जो एक पूर्व छात्र नेटवर्किंग प्लेटफॉर्म है। अब तक हमारे मंच से 500 पूर्व छात्र जुड़ चुके हैं।

व्याख्यान श्रृंखला

- श्री राहुल जैन (पूर्व छात्र- 2012-14; प्रबंधन विभाग, आरजीआईपीटी) के साथ ऑनलाइन बातचीत आयोजित की गई जहां उन्होंने वैश्विक एलएनजी व्यापार और इसके बाजार पर अपनी बहुमूल्य अंतर्दृष्टि साझा की, 17 दिसंबर 2022
- 7 जनवरी 2023 को प्रबंधन अध्ययन विभाग, आरजीआईपीटी के बैच 2018-20 के पूर्व छात्र, सिस्टम एनालिस्ट (टीसीएस), श्री शौरी माहेश्वरी, एमबीए छात्रों के साथ ऑनलाइन पूर्व छात्रों की बातचीत आयोजित की गई। एजेंडा: उद्योग के लिए खुद को तैयार करें।
- ग्लेनकोर और मैकिन्से कंपनी में प्राप्त ज्ञान विशेषज्ञता के प्रसार के लिए श्री हर्ष अग्रवाल (बैच 2018-20) के साथ ऑनलाइन पूर्व छात्रों की बातचीत आयोजित की गई। प्लेसमेंट से पहले एमबीए छात्रों के लिए उनके मॉक इंटरव्यू के लिए बातचीत निर्धारित की गई थी। फरवरी, 2023
- श्री विवेक कुमार (पूर्व छात्र (2016-18), प्रबंधन विभाग, आरजीआईपीटी) के साथ एक ऑनलाइन बातचीत ने एमबीए छात्रों के साथ अपने कॉर्पोरेट करियर के रोमांचक किस्से साझा किए || 23 दिसंबर 2022
- सुश्री हिमी श्रीवास्तव (पूर्व छात्र-2012-14) के साथ एक ऑनलाइन बातचीत आयोजित की गई जहां उन्होंने संगठन में अपनी भूमिका और ग्लेनकोर द्वारा एमबीए छात्रों के साथ तेल और गैस क्षेत्र में किए जाने वाले काम पर दिलचस्प अंतर्दृष्टि साझा की।
- यात्रा अनुदान प्रदान किया गया: नहीं

अनुसंधान एवं विकास कार्यालय

चल रही प्रायोजित अनुसंधान परियोजनाओं की सूची

क्रमांक	परियोजना का शीर्षक	अवधि	वित्तपोषण एजेंसी	स्वीकृत राशि (रुपये में)	प्रधान अन्वेषक/समन्वयक
1	Development of Material Application for Artificial photosynthesis or Sustainable Production of Energy	5 वर्ष	डीएसटी	11,240,000	डॉ. शिखा सिंह
2	Resolving the catalytic hotspots of synthesized hybrid nano catalysts at single Turnover resolution	3 वर्ष	एसईआरबी-डीएसटी	3,227,400	डॉ. देबाशीष पांडा
3	luminescent carbon Nanodots: A fundamental understanding & potential application	1 वर्ष	सीएसआईआर	520,000	डॉ. देबाशीष पांडा
4	Membrane Solvent Extraction processes for Extracting lanthanum & cerium metals from Leach solutions of Monazite Sands and recyclable Consumer Products	1 वर्ष	एसईआरबी-डीएसटी	3,818,878	डॉ. जी.के. अग्रहार
5	Performance Evaluation of a floating biogas plant by integrated semitransparent photovoltaic thrall (SPVT) collectors (Bio-SPVT)	2 वर्ष	पीसीआरए	2,500,000	प्रो. ए.एस.के. सिन्हा
6	Effective strategies to design and develop on-demand carbon-based metal oxide flexible supercapacitors for next generation energy storage devices	5 वर्ष	डीएसटी	11,240,000	डॉ. जी.आर. दिलीप
7	Flue Gas Decarbonization Using Novel Green Solvents	3 वर्ष	सीएसटी यू.पी.	1,194,000	डॉ. राकेश कुमार
8	Numerical Analysis and Simulations of Compressible / Incompressible Euler and Navier-Stokes Equations: Theoretical and Computational Studies	5 वर्ष	डीएसटी	2,108,800	सुश्री ज्योति (डॉ. मनोज कुमार राजपूत)
9	Groundwater Exploration of drought-stricken Bundelkhand region using integrated geophysical methods	1 वर्ष	एसईजी	472,973.00	डॉ. सतीश कुमार सिन्हा
10	Metal-Organic Frameworks - Derived Non-Precious-Metal-Based Nanostructured Materials for Electro-catalysis	3 वर्ष	सीएसआईआर	1,944,000	डॉ. अरशद एजाज
11	Development of Electrodes & Modular Compact Membrane Less Electrolyser set up of for sustainable H ₂ production from sea/tap/ground water	2 वर्ष	डीएसटी	25,328,000	प्रो. ए.एस.के. सिन्हा
12	Understanding the operational Dynamics of single screen Movie Theatres in an Indian Small Town: A Sociology Analysis of Movie Theatres in Rae Bareilly, Uttar Pradesh	1 वर्ष	एनआरसी-आईसीएसएसआर	99,000	डॉ. अनिबर्न मुखर्जी
13	Readiness and interest of India refineries for adopting AI/ML technology for operations	1 वर्ष	डीएसआईआर	2,309,000	डॉ. मिलन कुमार
14	Investigation of magnetic structure and magnetoelectric coupling of designed 4d/5d-4f coupled strongly correlated systems	3 वर्ष	यूजीसी-डीईसीएसआर	45,000	डॉ. तथामय बसु
15	Study of Carbon dioxide storage and utilization for enhanced oil recovery in Indian oil fields using polymer-nanoparticle assisted carbonated water flooding.	3 वर्ष	एसईआरबी-डीएसटी	4,864,320	डॉ. शिवांजलि शर्मा
16	Role of Non-Destructive test in categorizing Weathering state of Anisotropic rocks.	5 वर्ष	डीएसटी	2,127,400	श्री दिव्यांशु सिंह (डॉ. हेमन्त कुमार सिंह)
17	Syngas formation from direct gas phase co-electrolysis of CO ₂ and H ₂ O at high current density using amine functionalized electrodes and elevated pressure	2 वर्ष	एसईआरबी-डीएसटी	2,568,500	डॉ. करण मलिक
18	A Proposal Color Less Fully Transparent & Flexible Organic Thin-Film Transistors for Invisible or See-Through Electronics Application	2 वर्ष	एसईआरबी-डीएसटी	2,808,300	डॉ. अभिषेक कुमार सिंह
19	Investigating the optimal electricity generation mix for India using Fuzzy portfolio optimization approach.	3 वर्ष	डीएसटी-एसईआरबी (मैट्रिक्स)	6,60,000	डॉ. मो. इरफान
20	Closed Loop Control for Parabolic type Problems: Theory and Computation	2 वर्ष	एसईआरबी-डीएसटी	1,375,000	डॉ. सुदीप कुंडू
21	Scalable Strategies Towards Tough & Functional Hydrogels through Controlling of the Chain Conformation and Entanglement followed by Sequential Networking for Soft Electronics Applications	3 वर्ष	एसईआरबी-डीएसटी	4,500,000	प्रो यू ओझा
22	Synthesis and Evaluation of Nanocomposite-Pour Point Depressants (N-PPDs) to Inhibit Wax Deposition and Improve the Flow Properties of Indian Waxy Crude Oils for Pipeline Transportation	3 वर्ष	एसईआरबी-डीएसटी	2,358,400	डॉ. शैलेश कुमार
23	Thermal Energy Storage for Food/Grain Drying with CST/RE to Lower Pollution	1 वर्ष	डीएसटी	5,915,615	प्रो. अतुल शर्मा (सह-पीआई)
24	Liquid-liquid flow through small diameter conduits – Enhanced Mass Transfer and Kinetic study	5 वर्ष	सीएसआईआर	1,775,520	डॉ. के.जी. बिस्वास
25	Enhanced Para Xylene separation from Xylene isomers by reverse osmosis-based Membrane Assisted Crystallization	2 वर्ष	सीएसआईआर	455,000	डॉ. वी. एस. सिस्टला
26	Evaluation and Impact Assessment of MANF	4 महीने	मोमा	2,310,000	डॉ. पी.के. परिदा
27	Design and Investigation of Magnetoelectric Materials-an emerging route in data-storage devices	2 वर्ष	एसईआरबी-डीएसटी	3,315,400	डॉ. तथामय बसु
28	Mechanism of Carbon storage for enhanced oil recovery and net-zero scheme in oilfields of Cambay basin	3 वर्ष	एसईआरबी-डीएसटी	2,308,150	डॉ. तुषार शर्मा
29	Fabrication of Hybrid Ionic Electroactive Polymers-based Low-Powered, High-performance Soft Actuators for Soft Robotics Applications.	2 वर्ष	एसईआरबी-डीएसटी	2,495,900	डॉ. विपिन अमोली
कुल				102,728,656	

वार्षिक प्रतिवेदन 2022-2023

चल रही औद्योगिक परामर्श और परीक्षण परियोजनाओं की सूची

क्रमांक	परियोजना का शीर्षक	अवधि	प्रायोजक एजेंसी	स्वीकृत राशि (रुपये में)	लीड पीआई
1	Modelling of a Technique for con-version of Industrial wastewater to commercial Product	1 वर्ष	एम/एस सिद्धेश्वरी कॉटन मिल	750,000	डॉ. सुषम विश्वास
2	Corrosion in the biogas equipment and Biogas production	3 वर्ष	जियो इंजीनियर्स प्रा. लिमिटेड	1,600,000	डॉ. दीपक द्विवेदी
3	3D Geo-mechanical Model Devel-opment for Bali Mara Field	6 महीने	ऑयल इंडिया लिमिटेड	1,843,000	प्रो.सतीश कुमार सिन्हा
4	Single - step Silica Nanofluids to enhance Mechanical properties, Microstructure refinement and as a Shale Stabilizer for cement slurries	3 वर्ष	आईडीटी-ओएनजीसी देहरादून	2,610,355	डॉ तुषार शर्मा
5	Organic Petrography, Biostratigra-phy and Palynology Study of Shales of well Sadiya-1 of Oil India Lim-ited	1 वर्ष	ऑयल इंडिया लिमिटेड	1,979,120	प्रो आलोक कुमार सिंह
6	A study on hydrogen industry competitiveness in India: Role of Northeastern States	1वर्ष	ऑयल इंडिया लिमिटेड	956,000	प्रो. संजय कुमार कर
7	Study and one-step solution for downhole problems of Oil India Limited using multi-functional drilling fluid additive	2 वर्ष	ऑयल इंडिया लिमिटेड	1,992,400	डॉ. शिवांजलि शर्मा
8	Geoscientific Data Analysis of Gan-ga-Punjab and Vindhyan Basin	6 महीने	डीजीएच	1,166,000	डॉ.सतीश कुमार सिन्हा
9	Development of surfactant-based drag reducing agents for transpor-tation of asphaltic crude oils through pipelines	6 महीने	एचएमईएल	1,092,000	डॉ. शिवांजलि शर्मा
कुल				13,988,875	

अन्य शैक्षणिक संस्थानों के साथ चल रहे समझौता ज्ञापन की सूची

क्रम संख्या	एमओयू	प्रारंभ तिथि	तक वैध	एमओयू की प्रकार
1	NTPC School of Business	02.07.2019	01.07.2024	अनुसंधान और शैक्षणिक
2	CSIR-Indian Institute of Petroleum Dehradun	04.12.2019	04.12.2024	अनुसंधान और शैक्षणिक
3	Texas A&M University at Qatar	08.10.2020	07.10.2025	अनुसंधान और शैक्षणिक
4	IIT Bombay	09.09.2019	08.09.2024	अनुसंधान और शैक्षणिक
5	CSIR-Central Institute of Mining and fuel re-search Dhanbad	10.10.2019	09.10.2024	अनुसंधान और शैक्षणिक
6	Persian Gulf University	11.06.2020	10.06.2025	अनुसंधान और शैक्षणिक
7	Edith Cowan University Australia	11.07.2020	10.07.2025	अनुसंधान और शैक्षणिक
8	Indian Institute of Chemical Engineers	14.04.2022	14.04.2027	अनुसंधान और शैक्षणिक
9	IIT Roorkee	17.09.2019	16.09.2024	अनुसंधान और शैक्षणिक
10	Gujrat Energy Research and Management Insti-tute (GERMI)	17.09.2022	17.09.2025	अनुसंधान
11	Indian Institute of Information Technology Allahabad	18.12.2019	18.12.2024	अनुसंधान और शैक्षणिक
12	University Teknologi Brunei	19.09.2022	18.09.2027	अनुसंधान और शैक्षणिक
13	CSIR- Northeastern Institute of Science and Technology Jorhat, Assam	23.09.2022	22.09.2027	अनुसंधान
14	Northen (Arctic) Federal University named after M.V. Lomonosov	28.02.2022	27.02.2027	अनुसंधान और शैक्षणिक
15	CSIR- Indian Institute of Chemical Technology Hyderabad	28.08.2019	29.08.2024	अनुसंधान और शैक्षणिक
16	Curtin University Malaysia	28.08.2020	27.08.2025	अनुसंधान और शैक्षणिक
17	IIT Kanpur	29.08.2019	28.08.2024	अनुसंधान और शैक्षणिक
18	IIT Guwahati	30.10.2019	29.10.2024	अनुसंधान और शैक्षणिक

वार्षिक प्रतिवेदन 2022-2023

समझौता ज्ञापन का विवरण

क्रम संख्या	एमओयू	प्रारंभ तिथि	तक वैध	एमओयू की प्रकार
1	OIL INDIA Ltd.	01.01.2021	01.01.2026	अनुसंधान
2	NASSCOM (National Association of Soft-ware and Service Companies)	01.11.2022	01.11.2023	अनुसंधान
3	HAL Gyan Arpan	05.02.2020	04.02.2025	अनुसंधान
4	Cholamandalam MS Risk Service limited	10.06.2020	09.06.2023	अनुसंधान
5	Algo8.Inc Canada	14.08.2020	13.08.2025	अनुसंधान
6	MG (Morris Garages)	19.01.2023	19.01.2024	अनुसंधान
7	Hindustan Petroleum Corporation Limited	22.07.2022	01.07.2025	अनुसंधान
8	IOCL	25.02.2022	04.03.2025	अनुसंधान
9	IOCL	26.07.2019	25.07.2024	अनुसंधान
10	Bharat Heavy Electricals limited (BHEL)	27.05.2021	26.05.2026	अनुसंधान
11	Institute of Drilling Technology, ONGC, Dehradun	27.05.2022	26.05.2027	अनुसंधान
12	Mangalore Refinery and Petrochemicals limited	27.12.2021	27.12.2026	अनुसंधान
13	Aeris Communication India Pvt. Ltd.	31.03.2023	30.03.2025	अनुसंधान
14	PPAC (Petroleum planning and analysis cell.)	31.03.2023	30.03.2026	अनुसंधान
15	NTPC School of Business	02.07.2019	01.07.2024	अनुसंधान और शैक्षणिक
16	CSIR-Indian Institute of Petroleum Deh-radun	04.12.2019	04.12.2024	अनुसंधान और शैक्षणिक
17	Texas A&M University at Qatar	08.10.2020	07.10.2025	अनुसंधान और शैक्षणिक
18	IIT Bombay	09.09.2019	08.09.2024	अनुसंधान और शैक्षणिक
19	CSIR-Central Institute of Mining and fuel research Dhanbad	10.10.2019	09.10.2024	अनुसंधान और शैक्षणिक
20	Persian Gulf University	11.06.2020	10.06.2025	अनुसंधान और शैक्षणिक
21	Edith Cowan University Australia	11.07.2020	10.07.2025	अनुसंधान और शैक्षणिक
22	Indian Institute of Chemical Engineers	14.04.2022	14.04.2027	अनुसंधान और शैक्षणिक
23	IIT Roorkee	17.09.2019	16.09.2024	अनुसंधान और शैक्षणिक
24	Gujrat Energy Research and Management Institute (GERMI)	17.09.2022	17.09.2025	अनुसंधान
25	Indian Institute of Information Technolo-gy Allahabad	18.12.2019	18.12.2024	अनुसंधान और शैक्षणिक
26	University Teknologi Brunei	19.09.2022	18.09.2027	अनुसंधान और शैक्षणिक
27	CSIR- Northeastern Institute of Science and Technology Jorhat, Assam	23.09.2022	22.09.2027	अनुसंधान
28	Northen (Arctic) Federal University named after M.V. Lomonosov	28.02.2022	27.02.2027	अनुसंधान और शैक्षणिक
29	CSIR- Indian Institute of Chemical Tech-nology Hyderabad	28.08.2019	29.08.2024	अनुसंधान और शैक्षणिक
30	Curtin University Malaysia	28.08.2020	27.08.2025	अनुसंधान और शैक्षणिक
31	IIT Kanpur	29.08.2019	28.08.2024	अनुसंधान और शैक्षणिक
32	IIT Guwahati	30.10.2019	29.10.2024	अनुसंधान और शैक्षणिक

वार्षिक प्रतिवेदन 2022-2023

प्रायोजित परियोजना 2022-23

क्र. सं.	प्रधान अन्वेषक/समन्वयक	परियोजना का शीर्षक	प्रायोजक एजेंसी	अवधि	स्वीकृत राशि
1	डॉ. मिलन कुमार	Readiness and interest of India refin-eries for adopting AI/ML technology for operations	डीएसआईआर	1 वर्ष	2,309,000
2	डॉ. तथामय बसु	Investigation of magnetic structure and magnetoelectric coupling of de-signed 4d/5d-4f coupled strongly correlated systems	यूजीसी-डीईसीएसआर	3 वर्ष	45,000
3	डॉ. दीपक द्विवेदी	Corrosion in the biogas equipment and Biogas production	जियो इंजीनियर्स प्रा. लिमिटेड	3 वर्ष	1,600,000
4	डॉ. रूपा मंजूनाथ	Design and Developing of Aerostat for Surveillance	केएससीएसटी	4 माह	10,000
5	डॉ. शिवांजलि शर्मा	Study of Carbon dioxide storage and utilization for enhanced oil recovery in Indian oil fields using polymer-nanoparticle assisted carbonated wa-ter flooding.	SERB-डीएसटी	3 वर्ष	4,864,320
6	श्री दिव्यांशु सिंह	Role of Non-Destructive test in cate-gorizing Weathering state of Aniso-tropic rocks.	डीएसटी	5 वर्ष	425,480
7	डॉ.सतीश कुमार सिन्हा	3D Geo-mechanical Model Develop-ment for Bali Mara Field	ऑयल इंडिया लिमिटेड	6 माह	1,843,000
8	डॉ. तुषार शर्मा	Single - step Silica Nanofluids to en-hance Mechanical properties, Micro-structure refinement and as a Shale Stabilizer for cement slurries	आईडीटी-ओएनजीसी देहरादून	3 वर्ष	2,610,355
9	डॉ. करण मलिक	Syngas formation from direct gas phase co-electrolysis of CO ₂ and H ₂ O at high current density using amine functionalized electrodes and elevat-ed pressure	एसआरजी, एसईआरबी (डीएसटी)	2 वर्ष	2,568,500
10	डॉ. अभिषेक कुमार सिंह	A Proposal Color Less Fully Trans-parent & Flexible Organic Thin-Film Transistors for Invisible or See-Through Electronics Application	एसईआरबी	2 वर्ष	2,808,300
11	डॉ. दीपक द्विवेदी	Consultancy Project for Setting-up the state -of-the-art laboratory in Chhattisgarh Environ-ment Conserva-tion Board (CECB), Government of Chhattisgarh and for providing train-ing to staff members.	छत्तीसगढ़ पर्यावरण संरक्षण बोर्ड (सीईसीबी), छत्तीसगढ़ सरकार	समाप्ति तक	
12	डॉ. मो. इरफान	Investigating the optimal electricity generation mix for India using Fozzy portfolio optimization approach.	डीएसटी- एसईआरबी (मैट्रिक्स)	3 वर्ष	6,60,000
13	डॉ. सुदीप कुंडू	Closed loop control for Parabolic type Problem: Theory and Computa-tion	डीएसटी- एसईआरबी	2 वर्ष	1,322,750
14	डॉ. तथामय बसु	Design and Investigation of magneto-electric materials - an emerging route in data- storage devices	एसईआरबी	2 वर्ष	3,315,400
15	डॉ.विपिन अमोली	Fabrication of Hybrid Ionic Electro-active Polymers- based Low- Pow-ered, High- performance Soft Actua-tors for Soft Robotics Applications	डीएसटी- एसईआरबी	2 वर्ष	2,495,900
16	डॉ यू ओझा	Scalable Strategies Towards Tough & Functional Hydrogels through con-trolling of the chain confirmation and Entanglement followed by sequential network in for soft Electronics.	एसईआरबी	3 वर्ष	3,986,400
17	डॉ तुषार शर्मा	Mechanism of Carbon storage for enhanced oil recovery and net-zero scheme in oilfields of Cambay basin	डीएसटी-एसईआरबी भारत	3 वर्ष	2,308,150
18	डॉ.सतीश कुमार सिन्हा	Geoscientific Data Analysis of Ganga-Punjab and Vindhyan Basin	डीजीएच	6 माह	1,166,000
19	डॉ शैलेश कुमार	Synthesis and Evaluation of Nano-composite-pour point Depressants to Inhibit Wax Deposition and improve the flow properties of Indian Waxy crude Oils for Pipeline Transporta-tions.	एसईआरबी	3 वर्ष	2,468,400
20	डॉ. शिवांजलि शर्मा	Development of surfactant-based drag reducing agents for transporta-tion of asphaltic crude oils through pipelines	एचएमईएल	6 माह	1,092,000
कुल					39,218,075

वार्षिक प्रतिवेदन 2022-2023

आन्तरिक स्वीकृत परियोजना 2022-23

क्र. सं.	संकाय/पीआई का नाम	परियोजना का शीर्षक	परियोजना अवधि	स्वीकृत राशि
1	डॉ. कार्तिक बाबू एन.बी	Development of energy-efficient and high-strength poly-mer composite using the textile waste for automobile applications	2 वर्ष	1,000,000.00
2	डॉ. चिन्मयी हजारिका	Reliability Evaluation for below 20nm FinFET- based SRAM in the presence of Resistive Defects using TCDA technology for obtaining and improved and energy efficient processor	2 वर्ष	1,000,000.00
3	डॉ. देबाशीष पांडा	Equipment and accessories for research purpose.	1 वर्ष	1,400,000.00
4	डॉ. सतीश कुमार तिवारी	Modeling the Degradation and Conservation of Marine Ecosystem: Effect of Harmful Algal Blooms	2 वर्ष	340,000.00
5	डॉ. राकेश कुमार	Procurement of VCR Diesel Engine set up	1 वर्ष	1,362,900.00
6	डॉ. निमिषा रघुवंशी	Spatial variability of Petro physical parameters in upper assam and northeastern region of India	2 वर्ष	350,000.00
7	डॉ विवेक कुमार	Application of aspen in corrosion of materials/biogas production.	2 वर्ष	300,000.00
8	डॉ. सुप्रिया पुलिपाका	Silicon with doped soft carbon as high-performance an-odes for LIBs	2 वर्ष	2,000,000.00
9	डॉ अरुण कुमार	Development of carbon fiber based on membrane and filtration system for oil - water separation under continuous flow	2 वर्ष	1,000,000.00
10	डॉ श्रवण कुमार त्रिवेदी	Prediction of intention to purchase and re-purchase the energy efficient home appliances: Evidence using Explainable	2 वर्ष	500,000.00
11	डॉ. संतोष कुमार वर्मा	Parameter Extraction of solar photovoltaic module using evolutionary optimization algorithm	2 वर्ष	522,000.00
12	डॉ. हकीम नियास यू.एस.	Ageing assessment and ROI investigation of Automotive Lithium-Ion Battery for second Life Microgrid Battery Energy Storage System application.	2 वर्ष	1,800,000.00
13	डॉ. शैलेश कुमार, डॉ. अमित कुमार, डॉ. तुषार शर्मा, डॉ. हेमन्त कुमार सिंह	Investigation of Modification of CO2 Based EOR Slugs for Geological Sequestration in Mature Oil Fields.	2 वर्ष	2,500,000.00
14	डॉ यू ओझा	Thermal catalytic Conversion of CO2 to polymers and CNT.	18 महीना	475,000.00
15	डॉ. नवीन मणि त्रिपाठी	Development of flow Regime map for bends in positive pressure dense phase pneumatic conveying	2 वर्ष	995,000.00
16	डॉ दया गुप्ता	AI/ML Based internet of Energy (IOE) and its Post- Quantum Security and Privacy Management in Social Smart Grid Networks (SGNs)	3 वर्ष	920,000.00
17	डॉ. अरशद ऐजाज़	Non-Precious Metal ORR Catalysts: Assembling and Demonstration of 100,500, and 1000 W PEM Fuel Cell.	2 वर्ष	1,250,000.00
18	डॉ. गार्गी श्रीवास्तव	Developing of a model for instrument health monitoring with a setup of transducer, camera array and processing of image using AI/ML techniques.	3 वर्ष	100,000.00
19	डॉ. अमित सक्सेना	Development machine learning & sensor-based proto-type of drill bit dull grading for the drilling industry	2 वर्ष	340,000.00
20	डॉ. रूपा मंजूनाथ	Smart Sensor-Based Ev Fire Protection System	2 वर्ष	1,000,000.00
21	डॉ शिखा सिंह	Portable Device for Ammonia Sensing	1 वर्ष	400,000.00
कुल				19,554,900.00

पीडीएफ का विवरण

क्रम सं.	नाम
1	महर्षि यादव
2	ओम वीर सिंह

असम ऊर्जा संस्थान, शिवसागर

शैक्षणिक कार्यक्रम

संस्थान 2017 से असम ऊर्जा संस्थान, शिवसागर (आरजीआईपीटी जायस, अमेठी का एक केंद्र) से डिप्लोमा की पेशकश कर रहा है। इन सभी कार्यक्रमों में प्रवेश के लिए संस्थान भारत सरकार के मानदंडों के अनुसार समाज के सामाजिक रूप से कमजोर वर्गों यानी एससी/एसटी/ओबीसी/पीडब्ल्यूडी को भी अवसर प्रदान करता है। प्रत्येक कार्यक्रम की विस्तृत क्षमता इस प्रकार है:

असम ऊर्जा संस्थान, शिवसागर डिप्लोमा कार्यक्रम

क्र.सं.	कार्यक्रम	सीटों की संख्या
1	रसायन अभियांत्रिकी में डिप्लोमा	60
2	पेट्रोलियम अभियांत्रिकी में डिप्लोमा	60
3	मैकेनिकल अभियांत्रिकी में डिप्लोमा	60
4	इलेक्ट्रॉनिक्स और इंस्ट्रुमेंटेशन अभियांत्रिकी में डिप्लोमा	40
5	फायर एंड सेफ्टी अभियांत्रिकी में डिप्लोमा	40

असम ऊर्जा संस्थान, शिवसागर पीएचडी कार्यक्रम (2021)

क्र.सं.	कार्यक्रम	अभ्यर्थियों की संख्या
1	पेट्रोलियम अभियांत्रिकी में पीएचडी	02
2	गणित में पीएचडी	02
3	इलेक्ट्रॉनिक्स और इंस्ट्रुमेंटेशन अभियांत्रिकी में पीएचडी	01

डिप्लोमा कार्यक्रमों में प्रवेश:

सभी डिप्लोमा कार्यक्रमों में प्रवेश प्रत्येक सत्र के विषम सेमेस्टर की शुरुआत में, यानी प्रत्येक वर्ष जुलाई-अगस्त में, प्रथम वर्ष के स्तर द्वारा आयोजित असम पॉलिटेक्निक प्रवेश परीक्षा (पीएटी) पर प्रवेश परीक्षा के माध्यम से किया जाएगा:

न्यूनतम पात्रता मानदंड: इंजीनियरिंग में डिप्लोमा पाठ्यक्रमों के लिए, उम्मीदवार को निम्नलिखित शर्तों को पूरा करना होगा: -

- क) उसे असम ऊर्जा संस्थान, शिवसागर द्वारा प्रस्तावित डिप्लोमा पाठ्यक्रमों में प्रवेश लेने के लिए तकनीकी शिक्षा निदेशक, असम (डीटीई) द्वारा आयोजित पॉलिटेक्निक प्रवेश परीक्षा (पीएटी-2022) उत्तीर्ण करनी होगी।
- ख) उसे अनिवार्य विषय के रूप में गणित और विज्ञान के साथ एचएसएलसी या इसके समकक्ष परीक्षा एक ही बैठक में (विज्ञान और गणित में अनुग्रह अंक के बिना) उत्तीर्ण करनी होगी।
- ग) आरक्षण भारत सरकार के नियमों के अनुसार होगा।

डिप्लोमा में प्रवेश सितंबर 2022 में 117 छात्रों के शामिल होने के साथ सफलतापूर्वक पूरा हुआ। इनमें से 63 छात्र सामान्य वर्ग के हैं, 1 छात्र सामान्य (ईडब्ल्यूएस) वर्ग का है, 24 छात्र ओबीसी (एनसीएल) वर्ग के हैं, 09 छात्र एससी वर्ग के हैं और 20 छात्र एसटी वर्ग के हैं। वहां 20 छात्राएं थीं, जिन्होंने डिप्लोमा कार्यक्रमों में प्रवेश लिया था। डिप्लोमा कार्यक्रम

में प्रवेश पीएटी मेरिट सूची- 2022 में उम्मीदवारों की रैंकिंग के आधार पर प्रदान किया गया है। प्रवेश की प्रक्रिया पीएटी योग्य उम्मीदवारों से आवेदन आमंत्रित करने के साथ सितंबर 2022 के महीने में शुरू हुई थी। सभी प्राप्त आवेदनों को डीटीई, असम से प्राप्त पीएटी रैंक सूची से सत्यापित किया गया है। जनरल/ओबीसी/ईडब्ल्यूएस के लिए डिप्लोमा के लिए प्रथम सेमेस्टर का शुल्क रु. 32,700/- और एससी/एसटी/पीडब्ल्यूडी के लिए रु. 7,700/-। अंत में, 117 छात्रों ने डिप्लोमा कार्यक्रमों में प्रवेश लिया और उनके अंतिम उद्घाटन और समापन अंक निम्नानुसार प्रस्तुत किए गए हैं:

श्रेणी	पीएटी की प्रारंभिक अंक				
	PE	CE	ME	EIE	FSE
सामान्य	57	84	52	56	26
ईडब्ल्यूएस	0	0	0	0	34
अन्य पिछड़ा वर्ग-एनसीएल	45	41	55	42	52
अनुसूचित जाति	40	67	36	46	28
अनुसूचित जनजाति	40	38	44	35	34

श्रेणी	पीएटी के समापन अंक				
	PE	CE	ME	EIE	FSE
सामान्य	34	23	39	22	23
ईडब्ल्यूएस	0	0	0	0	0
अन्य पिछड़ा वर्ग-एनसीएल	37	21	33	33	31
अनुसूचित जाति	31	0	32	22	25
अनुसूचित जनजाति	34	30	33	31	24

वित्त वर्ष के लिए छात्रवृत्ति विवरण 2022-23

- छात्रवृत्ति विवरण: - असम ऊर्जा संस्थान की मेरिट सह साधन श्रेणी निर्धारण वर्ष 2022-2023 के लिए छात्रवृत्ति: 12 छात्र
- पदक के प्रकार:- शैक्षणिक: 5 छात्र
- विभिन्न प्रकार के वजीफे: - एसटी, एससी, ओबीसी और अल्पसंख्यक असम के लिए पोस्ट मैट्रिक छात्रवृत्ति; और नॉर्थ ईस्टर्न काउंसिल ऑफ मेरिट स्कॉलरशिप
- अप्रैल, 2022 से मार्च, 2023 तक विभिन्न प्रकार की छात्रवृत्ति के लिए संस्थान द्वारा अग्रेषित छात्रों के आवेदन की संख्या: - 80

प्रशासन

पद पर कार्यरत संकाय/कर्मचारी सदस्य

विश्वविद्यालय के विभाग के सदस्य	23
विजिटिंग फैकल्टी	11
ग्रुप ए स्टाफ	1 (Resigned)
तकनीकी स्टाफ	6
प्रशासनिक कर्मचारी- वर्ग	4

वार्षिक प्रतिवेदन 2022-2023

2022-23 के दौरान नियुक्त संकाय और कर्मचारी सदस्य

विजिटिंग फैकल्टी	11

नियोजन (2022-23)

विजिटिंग फैकल्टी	11

नियोजन (2022-23)

नियोजन का विवरण	11
नियोजन की आरंभ तिथि	March 10, 2023
नियोजन के लिए देखी गई कंपनियों की कुल संख्या	6 nos
कुल नौकरी की पेशकश की गई	128
छात्रों को 2 ऑफर प्राप्त हो रहे हैं	25
उच्चतम प्लेसमेंट पैकेज की पेशकश	INR 1.8 Lakhs
सबसे कम प्लेसमेंट पैकेज की पेशकश	INR 1.44 Lakhs
योग्य छात्रों के लिए औसत पैकेज	INR 1.52 Lakhs

वर्ष 2022-23 में कुल योग्य छात्र:

विभाग का नाम	डिप्लोमा
मैकेनिकल अभियांत्रिकी	40
केमिकल अभियांत्रिकी	41
पेट्रोलियम अभियांत्रिकी	41
इलेक्ट्रॉनिक्स और इंस्ट्रुमेंटेशन अभियांत्रिकी	17
अग्नि एवं सुरक्षा अभियांत्रिकी	24
कुल	163
योग्य छात्रों के लिए औसत पैकेज	INR 1.52 Lakhs

वर्ष 2022-23 में नियोजित छात्रों की कुल संख्या

विभाग का नाम	डिप्लोमा
मैकेनिकल इंजीनियरिंग	39
केमिकल इंजीनियरिंग	25
पेट्रोलियम इंजीनियरिंग	29
इलेक्ट्रॉनिक्स और इंस्ट्रुमेंटेशन इंजीनियरिंग	9
अग्नि एवं सुरक्षा इंजीनियरिंग	26
कुल	128
योग्य छात्रों के लिए औसत पैकेज	INR 1.52 Lakhs

आधारभूत संरचना

क्र. सं.	विवरण	संख्या
1	कक्षाओं की संख्या	4 Nos
2	व्याख्यान कक्षों की संख्या	4 No.
3	प्रयोगशाला एवं कार्यशाला की संख्या	7 Nos
4	विभाग/केंद्र में छात्रों के लिए उपलब्ध कंप्यूटरों की संख्या	34 Nos

छात्र संख्या

क्रम संख्या	कार्यक्रम	प्रथम वर्ष	द्वितीय वर्ष	तृतीय वर्ष
1.	पेट्रोलियम इंजीनियरिंग में डिप्लोमा	30	36	46
2.	केमिकल इंजीनियरिंग में डिप्लोमा	25	31	47
3.	मैकेनिकल इंजीनियरिंग में डिप्लोमा	31	37	42
4.	इलेक्ट्रॉनिक्स और इंस्ट्रुमेंटेशन इंजीनियरिंग में डिप्लोमा	14	17	23
5.	फायर एंड सेफ्टी इंजीनियरिंग में डिप्लोमा	17	18	24

दीक्षांत समारोह/संस्थान दिवस पुरस्कार जीतने वाले विद्वानों/छात्रों के नाम

क्रम संख्या	छात्र का नाम	रोल नंबर	पुरस्कार का नाम	द्वारा प्रदान किया गया पुरस्कार
1.	बिप्लब नेवार	DCHE-19-04	संस्थान स्वर्ण पदक	मुख्य अतिथि, श्री रामेश्वर तेली (एमओपीएनजी)
2.	बिप्लब नेवार	DCHE-19-04	अध्यक्ष स्वर्ण पदक	अध्यक्ष, आरजीआईपीटी
3.	मयूर पंखी गोगोई	DPIE-19-21	संस्थान स्वर्ण पदक	मुख्य अतिथि, श्री रामेश्वर तेली (एमओपीएनजी)
4.	अनुज कुमार शाह	DPIE-19-06	निदेशक स्वर्ण पदक	निदेशक, आरजीआईपीटी
5.	सुदीप्त सैकिया	DPE-19-26	संस्थान स्वर्ण पदक	मुख्य अतिथि, श्री रामेश्वर तेली (एमओपीएनजी)

संकाय और उनकी गतिविधि

संकाय और उनकी विशेषज्ञता के क्षेत्र

क्र. सं.	नाम	पीएचडी डिग्री प्रदान करने की तिथि	विशेषज्ञता के प्रमुख क्षेत्र (अधिकतम 3 क्षेत्र)
सहायक प्रोफेसर			
1	श्री चिन्मय जीत सरमा	-	1. Petroleum Exploration & Production 2. Alternate Fuels
2	श्रीमती सुकन्या हजारीका	-	Process Control
3	डॉ रूपजीत सैकिया	01.01.2021	1.Fuzzy Set Theory 2.Uncertainty Modelling 3.Hesitant Fuzzy Set Theory
4	डॉ भास्कर ज्योति मेधी	12.06.2019	1.Experimental and Computational Fluid Dynamics 2.Microfluidics 3.Complex Fluids
5	श्री शेखर गोगोई	-	1.Production 2.Drilling 3.Enhanced Oil Recovery
6	सुश्री अनन्या बोरा	-	1.Behavior based safety, 2.Bioremediation
7	डॉ श्रावन्ती मेधी	05.09.2020	1.Drilling Fluids 2.Nanotechnology, CFD 3.Rheology of Complex Fluids

वार्षिक प्रतिवेदन 2022-2023

क्र. सं.	नाम	पीएचडी डिग्री प्रदान करने की तिथि	विशेषज्ञता के प्रमुख क्षेत्र (अधिकतम 3 क्षेत्र)
8	डॉ सत्यसाची प्रमाणिक	26.11.2018	1.Nanoscience 2.Sensing Applications 3.Energy Applications
9	डॉ निमिषा रघुवंशी	26.05.2017	1.Twisted Bilayer Graphene 2.Topological systems & the associated surface states 3.Magnetism in iron based superconductors
10	डॉ सतीश कुमार तिवारी,	03.11.2017	1.Mathematical Ecology 2.Differential Equations 3.Nonlinear Dynamics
11	डॉ अरुण कुमार	22.10.2020	1. Nanomaterial 2. Environmental Remediation 3. Electro-chemical Sensing
12	श्री सत्यजीत चौधरी	-	1.Enhanced Oil Recovery, 2.Rheology, 3.CFD, Nanomaterial,
13	डॉ अनिल कुमार वर्मा	07.10.2018	1.Biofuels 2.Wastewater Treatment 3.Separation Process
14	डॉ सौविक डे	18.11.2011	1.Physical Chemistry
15	डॉ अभिमन्यु कर	05.03.2018	Thermal Science and Engineering
16	डॉ शिखा द्विवेदी	10.02.2017	1.Complex Systems 2.Computational Soft Matter Physics 3.Statistical Mechanics
17	डॉ सनत कुमार सिंहा	06.05.2019	1. Phase Transition, 2.Molecular Simulation, 3.Surface Icing
18	डॉ चिन्मयी हजारिका	27.12.2018	1.Bio Electronic Devices 2.MEMS 3.Sensors 4.Lithium Ion Battery
19	डॉ एम. चक्रपाणि	29.12.2017	1.Control Systems 2.Power Electronics 3.Renewable Energy Systems
20	डॉ नीलांबर बरिहा	11.05.2017	1.Industrial Safety & Hazard Management 2.Fire Science 3.Modeling of Process Safety 4.Design of Safety System 5.Reliability Engineering
21	डॉ नवीन मणि त्रिपाठी	28.03.2019	1.Fluid Particle Multiphase Flow 2.Pipe Line Design 3.Thermofluid 4.Powder Flow Characterization (Additive Manufacturing+Chemical,Food, Pharma)
22	डॉ संतोष कुमार वर्मा	01.08.2018	1.Model Order Reduction 2.Fractional Order Controller 3.Evolutionary Design Optimization
23	डॉ कार्तिक बाबू एनबी	12.01.2020	1.3D Printing 2.Biocomposites 3.Polymer Composites

तकनीकी और गैर-शिक्षण कर्मचारी

क्र. सं.	नाम	पदनाम	विभाग में नियुक्ति की तिथि
1	सुश्री परिश्रिता शर्मा बरुआ	सहायक ग्रेड- I	20.01.2022
2	डॉ तपन ज्योति गोगोई	तकनीशियन ग्रेड- I	18.01.2022
3	श्री सुमीर कुमार सैकिया	तकनीशियन ग्रेड- I	20.01.2022
4	डॉ सुरमोनी बोरठाकुर	तकनीकी अधीक्षक	07.02.2022
5	श्री सौगतो डे	तकनीकी अधीक्षक	08.02.2022
6	श्री अघना तियास मंडल	तकनीकी अधीक्षक	16.02.2022
7	डॉ सौरव ज्योति भराली	तकनीकी अधीक्षक	28.02.2022
8	श्री प्रद्युम्न फुकन	अधीक्षक	01.03.2022
9	श्री पुलकेश कुमार	सहायक ग्रेड- I	07.03.2022
10	श्री कौशिक दास	सहायक ग्रेड- I	24.03.2022

अंतर्राष्ट्रीय और पूर्व छात्र संबंध (2021-22)

परिचय

असम एनर्जी इंस्टीट्यूट (ईआई) का पूर्व छात्र संघ आरजीआईपीटी की छत्रछाया में ईआई के एक व्यापक और गतिशील समुदाय को विकसित करने के लिए ईआई के पूर्व छात्रों को एक-दूसरे के साथ-साथ वर्तमान विद्वानों के साथ जोड़ने के लिए एक मंच के रूप में कार्य करता है। पूर्व छात्रों और संस्थान का एक साथ आना आरजीआईपीटी बिरादरी की एक व्यावहारिक और जीवंत संपत्ति बन जाएगा।

दृष्टि

पूर्व छात्रों को विशिष्ट सामाजिक-आर्थिक अभ्यासों में लुभाकर संस्थान की भविष्य की उपलब्धियों के एक अनिवार्य सहयोगी के रूप में जोड़ने के लिए मंच के रूप में कार्य करना।

मिशन

- पूर्व छात्रों को संस्थान के साथ एकजुट करने के लिए एक गतिशील नेटवर्क बनाना, ताकि उनके शैक्षणिक और कॉर्पोरेट अनुभवों का आदान-प्रदान किया जा सके और पूर्व छात्रों और संस्थान के बीच संबंधों को मजबूत किया जा सके।
- छात्रों के आत्मविश्वास और क्षमता को बढ़ाने और उन्हें उद्यमशीलता की मानसिकता के लिए प्रेरित करने के लिए विभिन्न पूर्व छात्र-छात्र गतिविधियों का संचालन।
- पूर्व छात्र समुदाय के सदस्यों को संस्थान के विस्तारित परिवार का अभिन्न अंग बनाने के लिए उनकी विविध प्रतिबद्धताओं और चिंताओं को समझना।

कंप्यूटर और सूचना सेवा डेटा

नेटवर्क कनेक्टिविटी और इंटरनेट

सीआईएससी लैन सेटअप के माध्यम से संपूर्ण शैक्षणिक, प्रशासनिक भवन और कक्षाओं के भीतर नेटवर्क कनेक्टिविटी को सुचारू बनाए रखने के लिए आवश्यक दैनिक सेवाएं और सहायता प्रदान करता है। इंटरनेट का उपयोग बीएसएनएल, शिवसागर इकाई से प्राप्त समर्पित फाइबर ऑप्टिक ब्रॉडबैंड के 4 कनेक्शन द्वारा प्रदान किया जाता है। इसके अलावा हमारे परिसर में विभिन्न स्थानों पर स्थापित राउटर के माध्यम से वाईफाई सुविधा भी वितरित की गई है।

संस्थान मेल सर्वर (Google Apps)

संस्थान के कर्मचारियों और छात्रों की मेल सुविधा के लिए, हम क्लाउड बेस एजुकेशन गूगल ऐप मेल सर्वर का उपयोग कर रहे हैं, जो सीधे आरजीआईपीटी, जायस से संचालित है।

कक्षा ए/वी प्रणाली

हमारे पास ए/वी प्रणाली से सुसज्जित 4 कक्षाएँ हैं जिनमें डिजिटल माध्यम से कक्षाएं संचालित करने के लिए उपयुक्त डिजिटल बोर्ड और पोडियम शामिल हैं।

कंप्यूटर लैब

सीआईएससी का एक अन्य महत्वपूर्ण पहलू कंप्यूटर लैब की देखरेख करना है जिसमें 33 प्रयोगशालाएँ हैं। छात्रों और कर्मचारियों द्वारा उपयोग के लिए कुल डेस्कटॉप कंप्यूटरों की संख्या कंप्यूटर का उपयोग प्रासंगिक डेटा के साथ लॉग बुक में दर्ज किया जाता है। सभी कंप्यूटर आरजीआईपीटी जायस के माध्यम से खरीदे गए एस वेरिऑन मॉडल हैं।

सॉफ्टवेयर सेवाएँ

आईआई ने छात्रों के लिए कक्षाएं संचालित करने के लिए आरजीआईपीटी जायस से ऑटोकैड लाइसेंस उधार लिया है। वर्तमान में, हम आरजीआईपीटी जायस से प्राप्त लाइसेंस अनुमति के साथ स्थापित 27 कंप्यूटरों का उपयोग कर रहे हैं।

पुस्तकालय

स्थापना का वर्ष: 2018

परिचय:

असम एनर्जी इंस्टीट्यूट अपने सदस्यों को एक उत्तम पुस्तकालय की सुविधा प्रदान करता है जो आईआई बिरादरी की आवश्यकताओं को पूरा करता है जिसमें छात्र, संकाय और कर्मचारी शामिल हैं। आईआई पुस्तकालय में विभिन्न इंजीनियरिंग शाखाओं (रासायनिक, पेट्रोलियम, मैकेनिकल और अग्नि एवं सुरक्षा इंजीनियरिंग), बुनियादी विज्ञान विषयों (भौतिकी, रसायन विज्ञान, गणित और कंप्यूटर विज्ञान) के साथ-साथ अंग्रेजी और मानविकी से संबंधित पर्याप्त मात्रा में किताबें हैं। इसके अलावा, हम इलेक्ट्रॉनिक्स और इंस्ट्रुमेंटेशन इंजीनियरिंग के क्षेत्र में नए परिवर्धन के साथ-साथ इसकी वर्तमान में मौजूद संख्या में और भी कुछ जोड़ने की प्रक्रिया में हैं। वर्तमान में उपलब्ध तकनीकी वॉल्यूम लॉट के अलावा, लाइब्रेरी का लक्ष्य AEI बिरादरी की मांग को पूरा करने के लिए विभिन्न शैलियों के वैज्ञानिक जर्नल, पत्रिकाएं, समाचार पत्र, सॉफ्टवेयर, फिक्शन और गैर-फिक्शन उपन्यास जैसे अतिरिक्त तकनीकी संसाधन जोड़ना है।

- पुस्तकालय का समय: सुबह 9 बजे से शाम 6 बजे तक (सोमवार-शुक्रवार)
- डेटाबेस: 1120
- डिजिटल लाइब्रेरी के लिए पहल: आईआई शिवसागर में मौजूदा लाइब्रेरी के डिजिटलीकरण की प्रक्रिया शुरू की।
- कोई अन्य जानकारी/गतिविधियाँ (चित्र के साथ): हमने पुस्तकालय पुस्तकों की खरीद का दूसरा चरण पूरा कर लिया है और 426 पुस्तकें खरीदी हैं।



वार्षिक प्रतिवेदन 2022-2023

SW&GC द्वारा गतिविधियाँ

26 अप्रैल, 2022 को निवर्तमान बैच के लिए फोटोग्राफी सत्र

SW&GC ने AEI के फोटोग्राफी क्लब के सहयोग से निवर्तमान बैच के लिए फोटोग्राफी सत्र का आयोजन किया। सत्र का उद्देश्य उनकी शैक्षणिक यात्रा के सार को समझना और उन्हें अपने भविष्य के प्रयासों

में आगे बढ़ने के लिए यादगार यादें प्रदान करना है। निवर्तमान बैच ने समूह फोटोग्राफी के लिए जबरदस्त उत्साह और उमंग का प्रदर्शन किया। डिजिटल तस्वीरों संस्थान की ई-पत्रिका में प्रकाशित की गई। संस्थान की दृश्यता बढ़ाने के लिए संस्थान के सोशल मीडिया हैंडल पर तस्वीरों भी अपलोड की गई।



वार्षिक प्रतिवेदन 2022-2023

27 अप्रैल 2022 को ग्रीन असम ऊर्जा संस्थान को हरित रूप में विकसित करें

27 अप्रैल, 2022 को, "ग्रीन असम ऊर्जा संस्थान" नामक एक उल्लेखनीय पहल को क्रियान्वित किया गया, जिसमें संस्थान के परिसर के भीतर आयोजित एक वृक्षारोपण सत्र शामिल था। इस कार्यक्रम का उद्देश्य वृक्षारोपण के माध्यम से पर्यावरण जागरूकता, स्थिरता और सामुदायिक सहभागिता को बढ़ावा देना है। "ग्रीन असम ऊर्जा संस्थान" वृक्षारोपण सत्र उत्तीर्ण छात्रों (2019-2022 के बैच) के सहयोग से आयोजित किया गया था। कार्यक्रम अपराह्न 03:00 बजे एक परिचयात्मक सत्र के साथ शुरू हुआ, जिसके दौरान वृक्षारोपण के महत्व और पर्यावरण पर इसके प्रभाव

पर प्रकाश डाला गया। 70 से अधिक पौधे लगाने में लगभग 200 छात्रों, 30 संकाय सदस्यों और कर्मचारियों ने भाग लिया। प्रतिभागियों को छोटे समूहों में विभाजित किया गया और उचित रोपण के लिए उपकरण, पौधे और आवश्यक निर्देश प्रदान किए गए। वृक्षारोपण सत्र एक बड़े प्रयास की शुरुआत मात्र था। जूनियर छात्रों (बैच 2021-2024) ने अपने सामुदायिक इंटरनशिप पाठ्यक्रम के एक भाग के रूप में नए लगाए गए पेड़ों और पौधों की दीर्घकालिक देखभाल और रखरखाव की देखरेख करने और उनके स्वस्थ विकास को सुनिश्चित करने का संकल्प लिया। इस सामूहिक प्रयास ने हरित और अधिक टिकाऊ वातावरण बनाने के लिए संस्थान की प्रतिबद्धता को प्रदर्शित किया।



वार्षिक प्रतिवेदन 2022-2023

अलविदा 2022, बैच 2019-2022 को विदाई (28 अप्रैल, 2022)

28 अप्रैल, 2022 को, 2019-2022 के स्नातक बैच को विदाई देने के लिए "एडियू 2022" नामक एक भावनात्मक कार्यक्रम आयोजित किया गया था। इस कार्यक्रम का उद्देश्य उन उपलब्धियों, यादों और स्थायी संबंधों को याद करना है जो पूर्व छात्रों ने संस्थान में अपने समय के दौरान बनाए थे। "एडियू 2022" एसडब्ल्यू एंड जीसी, संकाय सदस्यों और उत्तीर्ण बैच का एक सहयोगात्मक प्रयास था। कार्यक्रम की शुरुआत सहायक के उद्घाटन

भाषण से हुई। डीन स्टूडेंट अफेयर्स ने निवर्तमान बैच की उपलब्धियों पर प्रकाश डाला और संस्थान में अपने समय के दौरान बनाए गए संबंधों को संजोने के महत्व पर जोर दिया। इसके बाद संस्थान के प्रभारी का संबोधन हुआ, जिन्होंने छात्रों को उनकी यात्रा के अगले चरण की शुरुआत करते हुए जीवन के सबक और सलाह देते हुए प्रोत्साहन और ज्ञान के संदेश साझा किए। इस कार्यक्रम में संगीत और नृत्य सहित विभिन्न प्रकार के सांस्कृतिक प्रदर्शन हुए, जिन्होंने निवर्तमान बैच की विविध प्रतिभाओं को प्रदर्शित किया और शाम में मनोरंजन का तत्व जोड़ा। स्मृति के प्रतीक के रूप में, प्रत्येक स्नातक छात्र को बैच की एक समूह तस्वीर भेंट की गई।



12 अगस्त 2022 को प्रभात फेरी

"आज़ादी का अमृत महोत्सव" के उत्सव के रूप में, 12 अगस्त 2022 को "तिरंगा" के साथ प्रभात फेरी का आयोजन किया गया था। यह सरकार के "हर घर तिरंगा" अभियान के अनुरूप था। कार्यक्रम में संकाय सदस्यों, कर्मचारियों और छात्रों ने सक्रिय रूप से भाग लिया। इस कार्यक्रम का उद्देश्य प्रतिभागियों के बीच देशभक्ति, एकता और गर्व की भावना पैदा करना था क्योंकि वे एकजुटता के साथ गर्व से तिरंगे झंडे के साथ मार्च कर रहे थे। फेरी सुबह 6:30 बजे जीएच-1 (टैक्सी अली) से डीसी कार्यालय तक शुरू हुई, जो शहर के प्रमुख क्षेत्रों को कवर करती है। जैसे-जैसे प्रभात फेरी आगे बढ़ी, प्रतिभागियों ने देशभक्ति के नारे लगाए और राष्ट्रीय गीत गाए, जिससे माहौल ऊर्जा और भक्ति से भर गया। उत्साहपूर्ण भागीदारी और समन्वित मंत्र राष्ट्रीय गौरव की भावना से गूंज उठा। "प्रभात फेरी" में राष्ट्रीय ध्वज को एकता, विविधता और देशभक्ति के प्रतीक के रूप में सफलतापूर्वक मनाया गया।

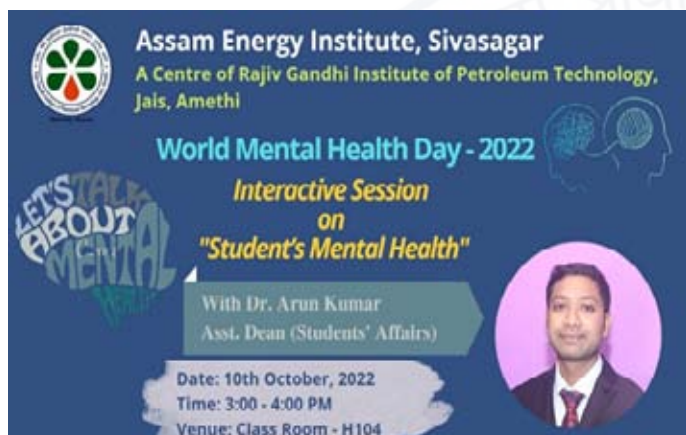
"ज्ञानार्पण" समूह का गठन, ईआई शिवसागर (7 अगस्त, 2022)

शिवसागर में स्थानीय वंचित बच्चों को शिक्षित करने और बढ़ावा देने के लिए एक स्वयं सहायता समूह का गठन किया गया था। इसकी शुरुआत एसडब्ल्यूएंडजीसी के अध्यक्ष डॉ. अरुण कुमार के मार्गदर्शन में 7 अगस्त को छह स्वयंसेवकों के साथ हुई थी। शुरुआत में, स्वयंसेवकों ने पहले तीन हफ्तों के लिए सड़क पर रहने वाले बच्चों के लिए भोजन, कॉपी और पेन/पेंसिल की व्यवस्था की। बाद में, संस्थान के आसपास के बच्चों की मदद करने की योजना पर समर्पित रूप से काम करने के लिए एक समूह का गठन किया गया। वर्तमान में 30 से अधिक स्वयंसेवक सप्ताहांत में दो केंद्रों पर बच्चों को इकट्ठा करने के लिए काम कर रहे हैं। एक सिवडोल के पास और दूसरा इंस्टीट्यूट गांव के पास। "ज्ञानार्पण" समूह का लक्ष्य हमारे संस्थान के आसपास के वंचित बच्चों को शिक्षा देकर उनके जीवन को उन्नत बनाना है। कचरा बीनने वालों और भिखारियों जैसे गरीब बच्चों के पास खाने के लिए उचित भोजन, कपड़े या पहनने के लिए चप्पल तक नहीं है। इस पहल का समुदाय के सभी सदस्यों ने समर्थन और सराहना की। गरीबों को शिक्षित करने के इस नेक काम को जारी रखने के लिए सभी (संकायों, छात्रों और कर्मचारियों) द्वारा वित्तीय योगदान दिया गया।



प्रथम वर्ष के छात्रों के साथ "छात्र मानसिक स्वास्थ्य" पर बातचीत सत्र 10 अक्टूबर 2022

एईआई, शिवसागर ने 10 अक्टूबर 2022 को "विश्व मानसिक स्वास्थ्य दिवस-2022" मनाया। इस अवसर पर छात्रों के बीच मानसिक स्वास्थ्य के मुद्दों के बारे में जागरूकता बढ़ाने और उनके मानसिक स्वास्थ्य के समर्थन में प्रयास जुटाने के लिए सहायक डीन (छात्र मामला) के साथ छात्रों का एक बातचीत सत्र यह स्वीकार करने के लिए आयोजित किया जाता है कि मानसिक स्वास्थ्य महत्वपूर्ण है। इस बात पर जोर दिया गया है कि हमें मानसिक स्वास्थ्य पर चर्चा करने और इसके बारे में कलंक को दूर करने की जरूरत है। सत्र में छात्रों ने अच्छी भागीदारी की।



23 अक्टूबर 2022 को दिवाली के अवसर पर कपड़ा दान अभियान।

छात्र कल्याण और शिकायत प्रकोष्ठ के मार्गदर्शन में ज्ञानार्पण स्वयंसेवकों की मदद से दिवाली (23 अक्टूबर, 2022) के अवसर पर वंचित बच्चों के लिए एक कपड़ा दान अभियान आयोजित किया गया था।



30 अक्टूबर 2022 को स्कूली बच्चों के साथ बातचीत

30 अक्टूबर, 2022 को ज्ञानार्पण स्वयंसेवकों और स्कूली बच्चों के बीच एक हार्दिक और समृद्ध बातचीत हुई। इस आयोजन का उद्देश्य स्वयंसेवकों को युवा पीढ़ी के साथ अपने ज्ञान और अनुभवों को साझा करने के लिए एक मंच प्रदान करते हुए सीखने, सलाह और आपसी समझ को बढ़ावा देना था। यह बातचीत ज्ञानार्पण समूह द्वारा आयोजित की गई थी, जो शिक्षा और कौशल विकास पर केंद्रित एक समुदाय-आधारित पहल है। यह कार्यक्रम परिसर में हुआ और इसमें पास के प्राथमिक विद्यालय के स्वयंसेवक और स्कूली बच्चे एकत्र हुए। ज्ञानार्पण स्वयंसेवकों का उद्देश्य स्कूली बच्चों के साथ अपनी विशेषज्ञता और अनुभव साझा करना, उन्हें विभिन्न विज्ञान और इंजीनियरिंग क्षेत्रों का पता लगाने और अपने क्षितिज को व्यापक बनाने के लिए प्रेरित करना है। इस कार्यक्रम ने सार्थक मार्गदर्शन का अवसर प्रदान किया, जहां स्वयंसेवक युवा दिमागों को मार्गदर्शन, सलाह और प्रोत्साहन प्रदान कर सकते थे। यह एक उत्साहजनक और प्रभावशाली घटना थी जिसने सीखने, सलाह देने और सामुदायिक निर्माण को बढ़ावा दिया।



05 नवंबर 2022 को पलाशनी लोअर प्राइमरी स्कूल में शिक्षकों और अभिभावकों के साथ बातचीत

एईआई के छात्र कल्याण प्रकोष्ठ की एक सामाजिक पहल ज्ञान अर्पण के तहत। संकाय सदस्यों ने पलाशनी लोअर प्राइमरी स्कूल (एईआई का नजदीकी स्कूल) में शिक्षकों और अभिभावकों के साथ बातचीत की। हमने विज्ञान और प्रौद्योगिकी के क्षेत्र में चुनौतियों, पुरस्कारों और अवसरों पर चर्चा करते हुए उनके संबंधित करियर के बारे में अंतर्दृष्टि साझा की। प्रतिभागी एईआई परिसर और इसकी सुविधाओं को लेकर

वार्षिक प्रतिवेदन 2022-2023

उत्साहित दिखे। बातचीत ने समुदाय की भावना को मजबूत किया और अगली पीढ़ी को वापस देने और उसका पोषण करने के महत्व पर प्रकाश डाला।



26 जनवरी, 2023 को सरस्वती पूजा संस्थान की खेल एवं सांस्कृतिक समिति के मार्गदर्शन में सरस्वती पूजा सफलतापूर्वक मनाई गई।



28-30 जनवरी, 2023 के दौरान खेल सप्ताह

28 से 30 जनवरी, 2023 तक, एक उत्साहजनक और जीवंत खेल सप्ताह का आयोजन किया गया, जिसमें छात्रों, एथलीटों और खेल प्रेमियों को शारीरिक गतिविधि, टीम वर्क और स्वस्थ प्रतिस्पर्धा का जश्न मनाने के लिए एक साथ लाया गया। इस कार्यक्रम का उद्देश्य प्रतिभागियों के बीच फिटनेस, सौहार्द और खेल कौशल को बढ़ावा देना था। खेल सप्ताह में विविध प्रकार की एथलेटिक गतिविधियाँ शामिल थीं जिनमें विभिन्न इनडोर और आउटडोर खेल शामिल थे। विभिन्न विभागों के छात्रों ने खेल सप्ताह में उत्साहपूर्वक भाग लिया, जिससे एक जीवंत और ऊर्जावान माहौल बना। इस कार्यक्रम ने विभिन्न पृष्ठभूमि के छात्रों के बीच बातचीत की सुविधा प्रदान की, जिससे एकता और सौहार्द की भावना को बढ़ावा मिला। खेल गतिविधियों में स्वस्थ प्रतिस्पर्धा, टीम वर्क और दृढ़ता के मूल्यों पर जोर दिया गया। प्रतिभागियों ने विभिन्न आयोजनों के दौरान असाधारण खेल कौशल का प्रदर्शन किया, एक-दूसरे को प्रोत्साहित किया और समर्थन दिया। विजेताओं और उत्कृष्ट प्रदर्शन करने वालों को उनकी उपलब्धियों के प्रतीक के रूप में पदक और ट्रॉफियां प्रदान की गईं।



आईडब्ल्यूसी डेटा

स्टोर रूम का निर्माण

सभी प्रकार की सामग्रियों के भंडारण के लिए एक सुरक्षित क्षेत्र प्रदान करने के लिए प्लिंथ क्षेत्रफल 90 वर्ग मीटर के 3 कक्षों का भंडार कक्ष भवन सेंट्रल वर्कशॉप ब्लॉक में बनाया गया है। पूरा ब्लॉक पेवर ब्लॉक और सीमेंट कंक्रीट सड़कों/रास्ते से अच्छी तरह जुड़ा हुआ है।



लड़कों के 2 छात्रावासों का निर्माण I:

विद्यार्थियों के आवास की सुविधा के लिए 160 क्षमता के 2 बालक छात्रावासों का निर्माण कराया जा रहा है। जी+3 संरचनाओं में वितरित 320 छात्रों की कुल क्षमता के साथ, संरचना जी+2 मंजिल तक पूरी हो चुकी है और ऊपर स्लैब की तैयारी 31/03/2023 तक प्रगति पर थी। जी+2 मंजिला क्षेत्र में आंतरिक परिष्करण कार्य प्रगति पर है।



शैक्षणिक भवन का निर्माण I

संस्थान अपने प्रत्येक डोमेन के लिए उचित बुनियादी ढांचे को विकसित करने की प्रक्रिया में है, जो संस्थान को अपनी स्नातक कक्षाओं और प्रयोगशालाओं को बहुत कुशल तरीके से संचालित करने में मदद करेगा। भवन में संकाय कार्यालयों, पुस्तकालय, सम्मेलन कक्ष, कंप्यूटर लैब आदि के लिए कमरे भी होंगे। साथ ही, सामान्य अनुसंधान सुविधाओं के प्रावधानों को ध्यान में रखते हुए निर्माण की योजना बनाई जा रही है।

चारदीवारी का निर्माण:

आईआई परिसर की सुरक्षा आवश्यकताओं के अनुसार, पूरे 100 एकड़ परिसर में गेट के साथ चारदीवारी का निर्माण शुरू कर दिया गया है। 35 एकड़ के परिसर के भीतर प्रीकास्ट कंक्रीट ब्लॉकों की एक अतिरिक्त आंतरिक दीवार का निर्माण किया गया है। 65 एकड़ गैर-वर्गीकृत भूमि में दीवार का निर्माण 95% पूरा हो गया है।

महिला छात्रावास का निर्माण:

विभिन्न पाठ्यक्रमों में नामांकित लड़कियों को समायोजित करने के लिए जी+3 मंजिला भवन का निर्माण किया जा रहा है। भवन के पूरा होने के बाद

इसमें 48 डबल अधिभोग कमरे होंगे। 31 मार्च, 2023 तक जी+2 संरचना तक कार्य पूरा हो चुका है।

डाइनिंग हॉल का निर्माण:

सभी छात्रावासों के लिए एक सामान्य मेस सुविधा स्थापित करने के लिए, आईआई परिसर में ए जी+1 डाइनिंग हॉल भवन का निर्माण किया जा रहा है। पूरा होने के बाद, इमारत में एक समय में 400+ छात्रों की क्षमता होगी। 31/03/2023 तक, प्लिंथ स्तर तक निर्माण पूरा हो चुका है।

सीपीडब्ल्यूडी कार्यालय:

सीपीडब्ल्यूडी के तहत सभी परियोजनाओं के कार्यों के उचित निष्पादन को सुनिश्चित करने के लिए, गेट नंबर 3 के पास सहायक अभियंता, सीपीडब्ल्यूडी के 4 कमरों का एक कार्यालय बनाया गया है। कार्यालय का निर्माण इस दृष्टि से किया गया है कि सीपीडब्ल्यूडी के तहत परियोजनाओं के पूरा होने के बाद भवन का उपयोग आईआई द्वारा अपनी आवश्यकता के अनुसार किया जाएगा।

अतिरिक्त लड़कियों और लड़कों के छात्रावासों का निर्माण:

छात्रावास की आवश्यकताओं की मांग को पूरा करने के लिए, अतिरिक्त 1 नं. लड़कों का छात्रावास और 1 नं. गर्ल्स हॉस्टल का निर्माण कराया जा रहा है। जी+4 बॉयज हॉस्टल में 192 छात्रों की क्षमता होगी और इनडोर गेम और अन्य मनोरंजक गतिविधियों के लिए सामान्य क्षेत्र होगा। फिलहाल बिल्डिंग में पाइलिंग का काम चल रहा है।

इसी प्रकार, लड़कियों का छात्रावास 100 बिस्तरों वाला जी+4 संरचना होगा जिसमें इनडोर गेम और अन्य गतिविधियों के लिए सामान्य क्षेत्र होगा। उप-संरचना की पाइलिंग और पीसीसी का काम पूरा हो चुका है और राफ्ट के लिए सुदृढीकरण का काम चल रहा है।

आंतरिक सड़कों का निर्माण:

परिसर की स्थापना के अनुरूप परिसर में आवागमन के लिए आंतरिक सड़कों का निर्माण अत्यंत आवश्यक है। इसलिए इमारतों के बीच पहुंच और अंतर-कनेक्टिविटी प्रदान करने के लिए जीएसबी परत की एक आंतरिक मोटर योग्य सड़क का निर्माण शुरू किया गया है।

गेट कॉम्प्लेक्स का निर्माण:

आईआई परिसर की स्थापना के साथ 3 परिसरों का निर्माण परिसर योजना में चिह्नित स्थान पर प्रत्येक 8.27 मीटर ऊंचाई के प्रवेश/निकास द्वार शुरू किए गए हैं। 3 नं. गेट कॉम्प्लेक्स के प्रत्येक गेट पर सेंट्रिक पोस्ट और मुख्य गेट परिसर में प्रतीक्षालय की व्यवस्था की जाएगी। वर्तमान में फाटकों के लिए पुलिया का निर्माण कार्य पूरा हो चुका है।

जल आपूर्ति योजना का निर्माण:

छात्रावास, संकाय आवास और नए शैक्षणिक भवन, पूरी तरह कार्यात्मक जल आपूर्ति प्रणाली की स्थापना शुरू कर दी गई है। परियोजना में 2.5 लाख लीटर क्षमता का एक भूमिगत नाबदान, पंप, लौह निस्पंदन संयंत्र और रासायनिक कक्ष शामिल हैं।

संकाय आवास का निर्माण

संस्थान के संकायों के लिए आवासीय आवास प्रदान करने के लिए, एक G+6 मंजिला संकाय आवास परियोजना शुरू की गई है। भवन के पूरा होने के बाद इसमें 36 लोग रह सकेंगे। दो टावर संरचना में 3बीएचके अपार्टमेंट, 36 लोगों के लिए ग्राउंड फ्लोर पार्किंग के साथ। वाहन.

उक्त कार्य के लिए सीपीडब्ल्यूडी द्वारा मार्च 23 में टेंडर दिया गया है।

Faculty members' participation with other universities under MoUs (Ongoing only)

Dr. Sabyasachi Pramanik- IIT Guwahati, Ref No.- MoU/ IITG/RGIPT/250 ; Dated- 30/10/2019

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Dr. Anil Kumar Varma

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Satyajit Chowdhury

- i. Satyajit Chowdhury, Yogendra Kumar, Saket Shrivastava, Shrey K Patel, Jitendra S Sangwai, A Review on the Recent Scientific and Commercial Progress on the Direct Air Capture Technology to Manage Atmospheric CO₂ Concentrations and Future Perspectives", Energy Fuels 2023, Volume 37, Issue 15, 10733–10757 (IF:5.3, Citation: 1)
- ii. Satyajit Chowdhury, Mayank Rakesh, Srawanti Medhi, Saket Shrivastava, Rajat Dehury, Jitendra S Sangwai, "Three-Phase Fluid Flow Interaction at Pore Scale during Water- and Surfactant-Alternating Gas (WAG/SAG) Injection Using Carbon Dioxide for Geo-Sequestration and Enhanced Oil Recovery" Energy Fuels 2023, 37, 7, 5270–5290 (IF:5.3, Citations: 1)
- iii. Satyajit Chowdhury, Mayank Rakesh, Jitendra S Sangwai, "Investigation of water and polymer flooding for enhanced oil recovery method in differential lobe pore structure" Indian Chemical Engineer 2022, Volume 65 Issue 2 143-154 (IF:1.5 and Citations:1)
- iv. Satyajit Chowdhury, Mayank Rakesh, Srawanti Medhi, Japan Trivedi, Jitendra S Sangwai, "Pore-scale flow simulation of supercritical CO₂ and oil flow for simultaneous CO₂ geo-sequestration and enhanced oil recovery" Environmental Science and Pollution Research 2022, Volume 29 Issue 50 76003-76025 (IF:5.8 and Citations:6)

Dr. Sanat Kumar Singha

- N. Vadakkayil, S.K. Singha, and S.K. Das, Influence of roughening transition on magnetic ordering, Physical Review E, 105 (4), 044142, 2022.

Dr. Srawanti Medhi

- i. Satyajit Chowdhury, Mayank Rakesh, Srawanti Medhi, Saket Shrivastava, Rajat Dehury, and Jitendra S. Sangwai. "Three-Phase Fluid Flow Interaction at Pore Scale during Water-and Surfactant-Alternating Gas (WAG/SAG)

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- ii. Satyajit Chowdhury, Mayank Rakesh, Srawanti Medhi, Japan Trivedi, and Jitendra S. Sangwai. "Pore-scale flow simulation of supercritical CO₂ and oil flow for simultaneous CO₂ geo-sequestration and enhanced oil recovery." Environmental Science and Pollution Research 29, no. 50 (2022): 76003-76025. (IF: 5.8, Citations: 6)

Dr. Nilambar Bariha

- Bariha, N., Ojha, D.K., Srivastava, V.C., Mishra, I.M. "Fire and risk analysis during loading and unloading operation in liquefied petroleum gas (LPG) bottling plant", Journal of Loss Prevention in the Process Industries 81 (2023) 104928 (IF: 3.916, Citations:2)

Dr. Satish Kumar Tiwari

- R. Singh, S. K. Tiwari, A. Ojha, N. K. Thakur, Dynamical study of nutrient-phytoplankton model with toxicity: Effect of diffusion and time delay, Mathematical Methods in the Applied Sciences (2022), 46(1), 490-509.
- S. Kumari, S. K. Tiwari, R. K. Upadhyay, Cross diffusion induced spatiotemporal pattern in diffusive nutrient-plankton model with nutrient recycling, Mathematics and computers in Simulation (2022), 202, 246-272.

Dr. Shikha Dwivedi

- S. Kumari, Shikha Dwivedi and R. Podgornik, "On the nature of screening in Voorn-Overbeek type theories", Journal of Chemical Physics, Vol. 156, 244901 (2022)

Dr. Sabyasachi Pramanik

- Mihir Manna, Sabyasachi Pramanik*, Satyapriya Bhandari. 2022. Surface Modification of Dual Emitting Quantum Dot Complex by Ionic Liquid for Bright and Stable White-Light Emission. ACS Applied Nano Materials. 5,8, 11906–11911. (* as corresponding author) Impact factor – 5.9

Books, monographs, lab or design manuals

Dr. Nilambar Bariha (Authored)

- Dhurandhar, R., Parmar, P., Thakur, C., Das, B., Bariha, N. Generation of bio-energy from industrial waste materials 1 (2023) 289-309

Dr. Anil Kumar Varma

- Malviya, P., Varma, A.K., Chaurasia, A.K., Parmar, H., Thakur, L.S., Kumbhkar, P. and Shah, P., 2023. Heavy Metals Contaminants Threat to Environment: It's Possible Treatment. In

Transportation Energy and Dynamics (pp. 323-341). Singapore: Springer Nature Singapore. (Book Chapter)

- O.P Bamboriya, A. K Varma, J.S Yadav, L.S Thakur, “Physicochemical and Pyrolysis Kinetic Aspects of Biomass Feedstocks: An Overview” International Conference on Chemical, Bio and Environmental Engineering in Springer, 181-198, 2022. (Book Chapter)

Dr. Naveen Mani Tripathi

- A.S. Bhadouria, A. Kumar, D. Raj, A. Verma, S. Singh, P. Tripathi, Y. Kumar, A.S.K. Sinha, N. M. Tripathi*, A.M. Yeneneh, D. Dwivedi* (Jun-2022): Corrosion mitigation in Oil reservoirs during CO₂ injection using nanomaterials. Book: Nanotechnology for CO₂ Utilization in Oilfield Applications, Elsevier, 127-146, [ISBN: 978-0-323-90540-4]

Satyajit Chowdhury

- Satyajit Chowdhury, Mayank Rakesh, Jitendra S Sangwai Developments in Petroleum Science, Elsevier Volume 78 Pages 111-134
- Continuing Education/QIP Short Term Lectures/Special Lectures

Dr. Nilambar Bariha

- Recent Advances in Electric Vehicle and Renewable Energy Integration: Challenges, Solutions and Opportunities R G I P T, Jais Rajiv Gandhi Institute of Petroleum Technology, Jais, Uttar Pradesh 23rd-27th January, 2023
- Process Modelling, Simulation, Control and Optimization (PMSCO-2023)-Online mode. NIT Jalandhar NIT Jalandhar, 23rd -27th March, 23

Ananya Borah

- Pursuing PhD at DUIET, Dibrugarh University, Feb 2023
- Dr. Sanat Kumar Singha
- Silver and Elite FDP certificate for securing 76% marks in the 12-week NPTEL course “Advanced Thermodynamics and Molecular Simulations” by IIT Roorkee (Jan-Apr 2023)
- Elite FDP certificate for securing 67% marks in the 12-week NPTEL course “Introduction to Machine Learning” by IIT Madras (Jan-Apr 2023)

Dr. Naveen Mani Tripathi

- Effective Resume Writing (Academics4Nation Science Internship Program 2.0) JAN-2023
- National Education Policy 2020 (Major Transformational Reforms in Education Sector) (NIET, Uttar Pradesh, Sponsored by ATAL Faculty Development Programme) DEC-2022
- Stress Management (NIET, Uttar Pradesh, Sponsored by ATAL Faculty Development Programme) DEC-2022

Sekhar Gogoi

- Attended Short Term Courses:
- Attended ATAL FDP on ML and AI Applications in the flow of hydrocarbons in underground reservoirs (Online).

Organised by AICTE ATAL Academy and Department of Petroleum Technology, Dibrugarh University from Dec 5-10 and 12-16, 2022

Dr. Chinmayee Hazarika

- Keynote speaker-Topic “Digital technologies for older persons and healthy ageing” Jointly Organized by The Institution of Engineers (India), Mizoram State Centre in collaboration with National Institute of Technology Mizoram, date- 10/06/2022

Dr. Shikha Dwivedi

- Short term course on “Fundamentals of Macroscopic and Microscopic Thermodynamics”, conducted by University of Colorado in June 2022 via online platform of Coursera

Dr. Rupjit Saikia

- Recent Advances in Electric Vehicle and Renewable Energy Integration: Challenges, Solutions and Opportunities at Energy Institute, Bengaluru and Assam Energy Institute, Sivasagar from 23/01/23 to 27/01/23
- Conference research papers (presented)

Dr. Anil Kumar Varma

- Anil Kumar Varma, Arun Kumar, Ravi Shankar “Utilization potential of pine needles as a source of bioenergy” ‘Frontiers in Energy, Environment and Material Sciences for Sustainable Development (FEEMSSD - 2023) jointly organized by Madan Mohan Malaviya University of Technology, Gorakhpur Uttar Pradesh-273010, India, Indian Desalination Association (InDA) and KIPM-College of Engineering & Technology GIDA, Gorakhpur, Uttar Pradesh-273209, India during 16-17 March. (online mode)
- A. Kumar, A. K. Varma, Green synthesis of electrode for electro-oxidative remediation of emerging pollutant in wastewater, National Conference on Science for Society, Environment and Sustainability (SSES-2022), November 24-26, 2022, CSIR-NEIST, Jorhat, India.

Dr. Arun Kumar

- Arun Kumar, Anil Kumar Varma, Green synthesis of electrode for electro-oxidative remediation of emerging pollutant in wastewater, National Conference on Science for Society, Environment and Sustainability (SSES-2022), November 24-26, 2022, CSIR-NEIST, Jorhat, India.
- Anil Kumar Varma, Arun Kumar, Ravi Shankar, Utilization potential of pine needles as a source of bioenergy, ‘Frontiers in Energy, Environment and Material Sciences for Sustainable Development (FEEMSSD - 2023), 16-17 March, 2023, Madan Mohan Malaviya University of Technology, Gorakhpur Uttar Pradesh-273010, India, Indian Desalination Association (InDA) and KIPM-College of Engineering & Technology GIDA, Gorakhpur, Uttar Pradesh-273209, India during. (online mode).

Dr. Satish Kumar Tiwari

- Presented a paper entitled "Food Chain Dynamics of Aquatic Plankton System: A Mathematical Model" in 2nd National Conference on Computational and Characterization Techniques in Engineering & Sciences (CCTES-23) organized by Rajkiya Engineering College, Ambedkar Nagar Uttar Pradesh, India, during February 27-28, 2023

Dr. Chinmayee Hazarika

- P. Barman, S. Bordoloi and C. Hazarika, "On-board Health Prognosis of Lithium-Ion Battery Based on the Estimation of Internal Resistance Under Resistive and Inductive Loading Conditions," 2022 Second International Conference on Advances in Electrical, Computing, Communication and Sustainable Technologies (ICAECT), Bhilai, India, 2022, pp. 1-5, doi: 10.1109/ICAECT54875.2022.9807976.

Dr. Shikha Dwivedi

- Paper presentation on the topic "Generalisation of Screening Length in the Voorn Overbeek Theory for the Asymmetric Polyelectrolyte Systems", in the "International Conference on Soft Materials (ICSM 2022)" which was held by SMRS and MNIT Jaipur, Rajasthan, India, during December 11-16, 2022.

Dr. Sabyasachi Pramanik

- Delivered a lecture entitled as "Surface Complexed Quantum Dots for White Light Emission and Sensing Applications" in Science for Society Environment and Sustainability" (SSES-2022), organized by CSIR-North East Institute of Science and Technology (NEIST), Jorhat, Assam, 24-26 Dec 2022

Dr. Rupjit Saikia

- International Conference on Optimization, Learning, and Analytics in Business, Department of Mathematics, Heritage Institute of Technology, Kolkata from 15/12/22 to 17/12/22
- National Conference on Advances in Mathematical Sciences, Department of Mathematics, Gauhati University from 22/12/22 & 23/12/22
- International Conference on "Mathematical Sciences and Applications" (ICMSA 2023), Department of Mathematics, Dr. Bhimrao Amedkar University, Agra from 24/03/23 to 26/03/23

Workshop attended/conducted

Dr. Anil Kumar Varma

- One Week Short Term Course on "Process Modeling, Simulation, Control and Optimization (PMSCO-2023) March 23-27, 2023 (Online Mode) Jointly Organized by Department of Instrumentation and Control Engineering,

Department of Chemical Engineering, and Department of Electrical Engineering, Dr. B.R. Ambedkar National Institute of Technology Jalandhar, Punjab

Dr. Naveen Mani Tripathi

- A 5 days workshop on "Recent Advances in Electric Vehicle and Renewable Energy Integration" (Sponsored by: Science and Engineering Research Board (SERB), Government of India) JAN-2023

Ananya Borah

- Technologies for Industrial Safety & Disaster Risk Management (20/12/2022-22/12/22)

Sekhar Gogoi

- Attended webinar on Good Practices in Well Control Intervention via Relief Well Subsurface Interception (Online). Sponsored by Federation of Indian Petroleum Industry (FIPI) Dibrugarh University Student Chapter on Aug 13, 2022
- Attended Symposium on Energy Transition – Concepts, Opportunities & Challenges and Workshop on Applied Statistical Modelling and Data Analytics for Petroleum Engineering and Related Application at IIT Guwahati. Sponsored by Chemical Engineering, Indian Institute of Technology Guwahati (IITG) and Society of Petroleum Engineers IIT Guwahati Student Chapter from Nov 21-24, 2022

Dr. Satish Kumar Tiwari

- "Workshop on Nonlinear Phenomena in Mathematical Biology (WoNPMB-2022)" organized by ABV- Indian Institute of Information Technology and Management, Gwalior during December 19-23, 2022.
- Attended online Lecture Series on "Nonlinear Dynamics and Applications" organized by Indian Institute of Technology, Indore, during February 13-16, 2023.

Dr. Chinmayee Hazarika

- One week workshop attended, Topic "IPR Management" organized by NIT Mizoram date- 27th June to 1st July 2022.

Dr. Shikha Dwivedi

- Online Faculty Development Programme attended on "Recent Advances in Electric Vehicle and Renewable Energy Integration: Challenges, Solutions and Opportunities" which was organized by Rajiv Gandhi Institute of Petroleum Technology, Jais, Uttar Pradesh, India during January 23-27, 2023.

Dr. Rupjit Saikia

- International Workshop on Mathematical Computations using Software, Department of Mathematics, Akal University, Punjab from 26/04/23 to 28/04/23

ऊर्जा संस्थान, बंगलुरु

विभाग/केंद्र का संक्षिप्त परिचय

भारत सरकार के पेट्रोलियम और प्राकृतिक गैस मंत्रालय (एमओपीएनजी) ने संसद के अधिनियम (आरजीआईपीटी अधिनियम 2007) द्वारा अनुमोदित राजीव गांधी पेट्रोलियम प्रौद्योगिकी संस्थान (आरजीआईपीटी) के माध्यम से तकनीकी आधारित प्रगति फैलाने की पहल की है। इस विशेषाधिकार प्राप्त मार्गदर्शन और सहयोग के तहत, एनर्जी इंस्टीट्यूट, बंगलुरु (ईआईबी), राजीव गांधी इंस्टीट्यूट ऑफ पेट्रोलियम टेक्नोलॉजी का केंद्र 2018 से बंगलुरु में ट्रांजिट परिसर में काम कर रहा है। संस्थान की स्थापना के लिए, बंगलुरु में होसाकोटे तालुक के कंबलीपुरा में कर्नाटक सरकार द्वारा आरजीआईपीटी को 150 एकड़ की व्यापक भूमि आवंटित की गई है।

ईआईबी की कल्पना एक प्रतिष्ठित अनुसंधान संस्थान के रूप में की गई है जो ऊर्जा के क्षेत्र में यथार्थवादी अत्याधुनिक शैक्षणिक कार्यक्रम और अनुसंधान प्रदान करता है। यह आवश्यक तकनीकी विशेषज्ञता विकसित करके युवा दिमागों को प्रज्वलित करने का प्रयास करता है। ईआईबी का इरादा अनुसंधान और विकास गतिविधियों, ऊर्जा नवाचार और उद्यमिता के माध्यम से सामाजिक विकास को बढ़ावा देना है। संस्थान का लक्ष्य ऊर्जा के क्षेत्र में अग्रणी औद्योगिक, तकनीकी और मौलिक अनुसंधान करना है; छात्रों को गुणवत्तापूर्ण शिक्षा प्रदान करें; ऊर्जा के क्षेत्र में औद्योगिक पेशेवरों को अल्पकालिक प्रशिक्षण पाठ्यक्रम प्रदान करना। संस्थान का लक्ष्य ऊर्जा प्रौद्योगिकियों के व्यापक अनुभव की सुविधा के लिए एक ऊर्जा अनुभव केंद्र, इन्क्यूबेशन सेल/ई-सेल, लाइसेंसिंग और व्यावसायीकरण कार्यालय बनाना भी है।

अनुसंधान के प्रमुख क्षेत्र

केंद्र के प्रमुख क्षेत्रों के अनुरूप, कई शोध कार्य किए जाते हैं जिन्हें निम्नानुसार समूहीकृत किया जा सकता है:

- सोलर फोटोवोल्टिक
 - ओ सौर सेल मॉडलिंग और निर्माण
 - सौर पीवी ग्रिड एकीकरण और अनुकूलन
 - ओ स्मार्ट ग्रिड / माइक्रो-ग्रिड
- सौर तापीय
 - गैर-केंद्रित संग्राहकों का संशोधित डिजाइन
 - ध्यान केंद्रित सौर संयंत्र
 - सौर जल तापन और ड्रायर

- ई-गतिशीलता
 - इलेक्ट्रिक और हाइब्रिड पावर ट्रेन डिजाइन मॉडलिंग और अनुकूलन
 - रेंज एक्सटेंशन
 - पुनोत्थान थर्मल डिजाइन के साथ बैटरी प्रबंधन प्रणाली
- ऊर्जा क्षेत्र में डिजिटलीकरण
 - मशीन लर्निंग
 - गहरी शिक्षा
 - कम्प्यूटेशनल इंटेलिजेंस
 - IoT / IIoT / डिजिटल ट्विन

आधारभूत संरचना

क्र.सं.	विवरण	संख्या
1	कक्षाओं की संख्या	03
2	व्याख्यान कक्षों की संख्या	01
3	प्रयोगशाला की संख्या	03
4	विभाग/केंद्र में छात्रों के लिए उपलब्ध कंप्यूटरों की संख्या	38

शैक्षणिक कार्यक्रमों की पेशकश की

नया कार्यक्रम पेश किया

क्र. सं.	कार्यक्रम	कार्यक्रम का नाम	इंटेक	कोर्स क्रेडिट
1	एम.टेक	डेटा साइंस	15	226
2	एम.टेक	आर्टिफिशियल इंटेलिजेंस	15	226

छात्र संख्या

क्र.सं.	कार्यक्रम	I वर्ष	II वर्ष	III वर्ष	IV वर्ष
1	एम. टेक	9	7	NIL	NIL
2	पीएच.डी. (संस्थान फैलोशिप के तहत)	NIL	1	3	3

वार्षिक प्रतिवेदन 2022-2023

उन छात्रों/विद्वानों के नाम जिन्होंने विदेश में या भारत में सम्मेलनों/कार्यशालाओं/सेमिनारों और संगोष्ठियों में भाग लिया

क्र. सं.	छात्र का नाम	रोल नं.	सम्मेलन/संगोष्ठी/संगोष्ठी/कार्यशाला	तारीख और स्थान	वित्तीय सहायता से
1	कालिदास पी	21EB1RE15	World Energy Storage Con-gress 2022	December 18th 2022, Turkey (online mode)	RGIPT
2	आलोक कुमार चौधरी	21EB1EV02	G20 Y20 consultation meet-ing at KIIT University, Bhu-baneshwar	14-15 April 2023 KIIT University, Bhubaneshwar	Self
3	आलोक कुमार चौधरी	21EB1EV02	International Conference on Digitalization in Energy Sec-tor by EIB	5-6 December 2022, Jayanagar Bengaluru	RGIPT
4	प्रत्यूष आनंद	21EB1RE13	1st World Energy Storage Conference	December 18th 2022, Turkey (online mode)	RGIPT
5	देबमाल्या साधु	21EB1RE02	2nd International Conference on Recent and Advanced Composite Materials	22-24 February 2023, SRMSIT	Self
6	देबमाल्या साधु	21EB1RE02	National Conference on Per-ovskite Society of India Meet 2023	01-03 March 2023, IIT Roor-kee	Self
5	देवांश दत्तात्रेय	21EB1EE03	National Conference on Per-ovskite Society of India Meet 2023	01-03 March 2023, IIT Roor-kee	
	Self				
6	किमी. मधु पासवान	21EB1EE06	National Conference on Per-ovskite Society of India Meet 2023	01-03 March 2023, IIT Roor-kee	Self
7	मोहित दिलीप बोर्से	21EB1EE10	International Conference on Functional material for ad-vance technology	2-4 January 2023, Central University of Kerala	RGIPT
8	मोहित दिलीप बोर्से	21EB1EE10	CSIR Sponsored national conference on challenges and opportunities for green hydrogen in India.	28 - 29 June 2023, Indian Institute of In-formation Tech-nology, Design and Manufactur-ing, Kurnool An-dhra Pradesh, India	RGIPT
9	सोम प्रकाश उपाध्याय	20EB0008	Second International Confer-ence on Innovations in Clean Energy Technologies (ICET-2023)	8th -10th April 2023 ENERGY CENTRE, MANIT	Self
9	सोम प्रकाश उपाध्याय	20EB0008	National Conference on Recent Advancement in Civil, Mechanical and Electrical Engineering (RACMEE 2023)	17-18, April 2023 Lucknow, Uttar Pradesh	Self
9	अक्षय जैन	20EB0001	NCCBS-2023(Hybrid Mode)	25-26 March 2023, Veer Surendra Sai University of Technology	Self
10	आनंदी जी	20EB0004	International Conference on Advancements and Key Challenges in Green Energy and Computing (AKGEC- 2023)	24-25 February 2023, in Ajay Ku-mar Garg Engi-neering College, Ghaziabad UP	Self
11	अलमास	20EB0003	5th International Confer-ence on Environment, Resources and Energy Engineering (EREE 2023)	June 15-17, 2023 in Bangkok, Thai-land.	Self
12	अनितेश आनंद	21EB0002	4th International Confer-ence on Communication, Devices and Computing (ICCDC 2023)	March 1-3, 2023 West Bengal, India	RGIPT
13	अलीशा दास	20EB0002	4th International Confer-ence on Trends in Mate-rial Science and In-ventive Materials	24-25 March 2022, JCT College of En-gineering & Tech-nology, Coimbatore	RGIPT

संस्थान के बाहर पुरस्कार एवं पुरस्कार प्राप्त करने वाले विद्यार्थियों/विद्वानों के नाम

क्र.सं.	छात्र का नाम	अनुक्रमांक	पुरस्कार का नाम	तिथि एवं स्थान	पुरस्कार द्वारा प्रदान किया गया
1.	आलोक कुमार चौधरी	21EB1EV02	National Youth Award	16/01/2023 Hubli	Ministry of Youth affairs and Sports

वार्षिक प्रतिवेदन 2022-2023

दीक्षांत समारोह/संस्थान दिवस पुरस्कार जीतने वाले विद्वानों/छात्रों के नाम

क्र.सं.	छात्र का नाम	रोल नंबर	पुरस्कार का नाम	पुरस्कार द्वारा प्रदान किया गया
1.	अभिजीत राठौड़	20EB1PS02	First rank in Power and Energy Systems Engineer-ing -Gold Medal	RGIPT during Convocation held on November 2022
2.	सुरक्षा आर	20EB1EV02	First rank in Electric Vehi-cle Technology- Gold Medal	RGIPT during Convocation held on November 2022
3.	भावसार हेत संदीपभाई	20EB1EE02	First rank in Energy Sci-ence and Technology- Gold Medal	RGIPT during Convocation held on November 2022
4.	आनंद वेंकिटरमण	20EB1RE02	First rank in Renewable Energy - Gold Medal	RGIPT during Convocation held on November 2022

संकाय और उनकी गतिविधि

संकाय और उनकी विशेषज्ञता के क्षेत्र

क्रम संख्या	नाम, योग्यताएं, कर्मचारी संख्या	पीएचडी डिग्री प्रदान करने की तिथि	विशेषज्ञता के प्रमुख क्षेत्र (अधिकतम 3 क्षेत्र)
सहायक प्राध्यापक			
1	डॉ. अर्जुन देव	3 नवंबर, 2018	1) Building Integrated Photovoltaic/Thermal Systems 2) Micro-grid/Smart Grid 3) Electric and Hybrid Vehicle
2	डॉ. रूपा मंजुनाथ	24 जून 2014	1) Instrumentation & Control 2) Wearable Devices 3) Automotive Safety
3	डॉ. हकीम नियास. यू.एस.	15 सितंबर, 2017	1) Thermal Energy Storage 2) Thermal Management of Batteries and Buildings 3) Solar Thermal
4	डॉ. शिवशंकर एस	13 जुलाई, 2016	1) Solar photovoltaic 2) Smart grid /Micro grid 3) Electric and Hybrid vehicles
5	डॉ. देबासिस डे	19 जनवरी, 2012	1) Fabrication of solar cells 2) Photo/Electrocatalyst for water electrolysis 3) Energy materials
6	डॉ. भास्कर ज्योति बोर	22 जून, 2016	1) Biofuels 2) IC Engines 3) Renewable Energy
7	डॉ. चंद्रकांत	26 अगस्त 2021	1) Statistical Inference 2) Reliability Analysis 3) Censored lifetime analysis
8	डॉ. भागीरथी साहू	4 दिसंबर 2018	Microwave Engineering
डीएसटी इंस्पायर फैकल्टी			
1	डॉ. जी आर दिलीप	13 सितंबर, 2023	1) Condensed Mater Physics 2) Materials Electrochemistry 3) Nanomaterials for Energy Devices

तकनीकी और गैर-शिक्षण कर्मचारी (अनुबंध पर)

क्र.सं.	नाम, योग्यता	पदनाम, कर्मचारी संख्या	विभाग में नियुक्ति की तिथि
1	महाबलेश्वर एस शेटी	अधीक्षक-ग्रेड I	01.11.2018
2	रघु डी जे	सहायक-ग्रेड I	01.03.2018
3	भानुश्री एन	तकनीशियन-ग्रेड I	24.09.2018
4	सौम्या के.	अध्यक्ष के सचिव	01.04.2021
5	शुशीलम्मा	हाउस कीपिंग कर्मचारी	22.09.2021
6	दयानंद शेटी	कार्यालय परिचर	01.10.2021

वार्षिक प्रतिवेदन 2022-2023

संकाय सदस्यों द्वारा आयोजित लघु अवधि के पाठ्यक्रम/कार्यशालाएं/सेमिनार/संगोष्ठी/सम्मेलन

क्रमांक	समन्वयक	शीर्षक	अवधि
1.	डॉ. भास्कर ज्योति बोरा	48th National Conference on Fluid Mechanics and Fluid Power (FMFP)	27 -29, December 2021 BITS Pilani, Rajasthan, India
1	डॉ. अर्जुन देव	Training cum FDP on Real-time Simula-tion and Its applications in E-mobility using Typhoon HIL	September 26 – 30, 2022
2	डॉ. शिवशंकर सुंदरम	SERB sponsored FDP on Recent Ad-vances in Electric Vehicle and Renewa-ble Energy Integration to the grid	January 23-27, 2023
3	डॉ. रूपा मंजूनाथ, आयोजन सचिव	International Level Conference on Digi-talization in Energy Sector (DES 2022)	December 5 -6, 2022

शैक्षणिक संस्थानों और सार्वजनिक क्षेत्र के उपक्रमों में संकाय सदस्यों द्वारा भाग लेने वाले अल्पकालिक पाठ्यक्रम/कार्यशालाएं/सेमिनार/संगोष्ठी/सम्मेलन/प्रशिक्षण कार्यक्रम

क्रमांक	संकाय सदस्य का नाम	शीर्षक	अवधि और स्थान
सेमिनार/संगोष्ठी/सम्मेलन			
1	डॉ. हकीम नियास, यू.एस.	Taking Research to Next Level	26-30 September 2022 Sri Venkateshwara College of Engineering, Bengaluru
2	डॉ. हकीम नियास, यू.एस.	2nd World Energy Storage Con-ference	18-21 December 2022 Istanbul Medeniyet University, Istanbul, Turkey
3	डॉ. हकीम नियास, यू.एस.	First Industrial Visit under Gya-naanubhav Prawwah Sahayatra (GPS) scheme by Natural Gas Society	24 March 2023 Mahanagar Gas Limited, Mumbai
4	डॉ. चंद्रकांत	Short-Term Training Program (STTP) on Data Science and Sta-tistical Analysis through R and Python Software	May 10-14, 2023 at SVNIT Surat
5	डॉ. चंद्रकांत	One Week Workshop on Statis-tics & Optimization Techniques Using Software Packages	May 22-27 2023 at AMU Aligarh
6	डॉ. शिवशंकर सुंदरम	FDP on Recent Advances in Electric Vehicle and Renewable Energy Integration to the grid	January 23-27, 2023
7	डॉ. शिवशंकर सुंदरम	Digitalization in Energy sector 2022	December 5 -6 2022, Bengaluru
8	डॉ. शिवशंकर सुंदरम	India Energy Week	6-8 February 2023 03 days and Bengaluru
9	डॉ. जी.आर.दिलीप	FDP on Recent Advances in Electric Vehicle and Renewable Energy Integration to the grid	January 23-27, 2023
10	डॉ. रूपा मंजूनाथ	India Energy Week	6-8 February 2023 03 days, Bengaluru
11	डॉ. रूपा मंजूनाथ	International Interdisciplinary Humanitarian Conference for Sustainability	Nov 4-5 2022, SVCE, Bengaluru
12	डॉ. रूपा मंजूनाथ	2nd Annual Workshop on Air-craft Health Management	June 22-23 2023 02 days (Online)
13	डॉ. रूपा मंजूनाथ	Recent Advances in Electric Ve-hicle and Renewable Energy In-tegration: Challenges, Solutions, and Opportunities	January 23-27, 2023 05 days (Online)

वार्षिक प्रतिवेदन 2022-2023

अन्य संस्थानों में संकाय सदस्यों द्वारा दिए गए विशेष व्याख्यान

क्र.सं.	संकाय सदस्य का नाम	व्याख्यान का विषय	संस्थान	दिनांक
1	डॉ. हकीम नियास, यू.एस.	Thermal Management of Buildings and Processors	SVERI's College of Engineering, Pan-dharpur	16 June 2022
2	डॉ. हकीम नियास, यू.एस.	Energy Storage Simulation Training	Indian Institute of Technology Jammu, Jammu	27 July 2022
3	डॉ. हकीम नियास, यू.एस.	Solar-Thermal Energy Management in Buildings	Indian Institute of Technology Jammu, Jammu	28 July 2022
4	डॉ. हकीम नियास, यू.एस.	Thermal Energy Storage Modelling	JAIN (Deemed-to-be University)	07 December 2022
5	डॉ. हकीम नियास, यू.एस.	Hands On Session on Hydrogen Fuel Cell Modelling	G. H. Raisoni College of Engineering and Management	11 April 2023
6	डॉ. हकीम नियास, यू.एस.	Fuel Cell Simulation Training	Indian Institute of Technology Jammu, Jammu	24 May 2023
7	डॉ. शिवशंकर सुंदरम	Modelling and Simulation of Electric and Hybrid Vehicles with hands on training	VIT Chennai	April 8th 2022

संकाय सदस्यों द्वारा विदेश दौरे

क्र. सं.	संकाय सदस्य का नाम	जिस देश का दौरा किया गया	भारत छोड़ने की तारीख	भारत लौटने की तारीख	दौर का उद्देश्य	यहां से वित्त पोषण
1	डॉ. हकीम नियास, यू.एस.	Turkey	17 /12/2022	23/12/2022	Presented Two Papers in an International Conference	CPDA, RGIPT
2	डॉ. शिवशंकर सुंदरम	Bangkok, Thailand	14/06/2023	18/06/2023	To present paper at 5th International conference EREE 2023	RGIPT (CPDA)
3	डॉ. जी.आर. दिलीप	Republic of Korea	11-07-2022	13/08/2022	Visiting Researcher/Professor	Sponsored by Yeungnam University

सम्मान और पुरस्कार

क्र.सं.	संकाय सदस्य का नाम	पुरस्कार का विवरण
1	डॉ. जी.आर. दिलीप	Member of Royal Society of Chemistry (MRSC) - 2023 by the RSC, UK
2	डॉ. शिवशंकर सुंदरम	Best Oral presentation Award at 5th International Conference on Energy and Environment, Thailand by University of Wollongong.

शैक्षणिक और व्यावसायिक समाजों की फेलोशिप

क्र.सं.	संकाय सदस्य का नाम	फेलोशिप का विवरण
1	डॉ. भास्कर ज्योति बोरा	American Society of Mechanical Engineers
2	डॉ. देबासिस डी	American Chemical Society
3	डॉ. हकीम नियास, यू.एस.	International Solar Energy Society
4	डॉ. हकीम नियास, यू.एस.	American Society of Mechanical Engineers, Membership ID: 101985019
5	डॉ. हकीम नियास, यू.एस.	Solar Energy Society of India, Life Member, Membership ID: 2412
6	डॉ. हकीम नियास, यू.एस.	Indian Society for Heat and Mass Transfer, Life Member, Membership ID: 1162
7	डॉ. हकीम नियास, यू.एस.	Indian Society of Heating, Refrigerating and Air-conditioning Engineers, Membership ID: 22259
8	डॉ. शिवशंकर सुंदरम	Solar Energy Society of India, Life member, Membership ID: 3832
9	डॉ. शिवशंकर सुंदरम	IEEE, Power and Energy, Bengaluru Society Membership ID: 96130003
10	डॉ. रूपा मंजूनाथ	Member, Instrument Society of India
11	डॉ. रूपा मंजूनाथ	IEEE, Member
12	डॉ. रूपा मंजूनाथ	SAE India Member

वार्षिक प्रतिवेदन 2022-2023

पुस्तकें, मोनोग्राफ लेखक/सह-लेखक

क्र. सं.	लेखक/सह-लेखक का नाम	शीर्षक	प्रकाशक
1	B.J. Bora, A. Jain, S. Garg, C.J. Ramanan, and B.M. Jyothi (2023).	Advances in Gasification Techniques, Bioenergy Engineering, Bioenergy Engineering- Fundamen-tals, Methods, Modelling and Applications, 133-147,	Elsevier Wood head publishers, https://doi.org/10.1016/B978-0-323-98363-1.00012-0
2	C.J. Ramanan, B.J. Bora, S. Roy, N. Alom, A. Buradi (2023).	CFD Analysis of Pressure and Velocity distribution in Novel Reverse Osmosis Filtration of Crude Bio-diesel. Bhattacharyya, S., Verma, S., Harikrishnan, A.R. (eds) Fluid Mechan-ics and Fluid Power (Vol. 3). FMFP 2021.	Lecture Notes in Mechanical Engineer-ing. Springer, Singapore.405-410, https://doi.org/10.1007/978-981-19-6270-7_68
3	C.J. Sarma, B.J. Bora, D.K., Bora, B.J. Medhi (2023),	Effect of Compression Ratio on Performance and Emission Character-istics of a Rubber Seed Biodiesel Run Diesel En-gine. In: Bhattacharyya, S., Verma, S., Harikrish-nan, A.R. (eds) Fluid Me-chanics and Fluid Power (Vol. 3). FMFP 2021.	Lecture Notes in Mechanical Engineer-ing. Springer, Singapore. 497-501, https://doi.org/10.1007/978-981-19-6270-7_83
4	Dhungana, A. Bura-di, P. Dahal, P., Bo-ra, B.J. (2023).	Impact of Bifurcation and Bifurcation Angle on the Hemodynamics of Coro-nary Arteries. In: Bhattacharyya, S., Verma, S., Harikrishnan, A.R. (eds) Fluid Mechanics and Fluid Power (Vol. 3). FMFP 2021.	Lecture Notes in Mechanical Engineer-ing Springer, Singapore. 31-36, https://doi.org/10.1007/978-981-19-6270-7_6
5	C.J. Sarma, B.J. Bora, B.J., D.K. Bora, B.J. Medhi (2023).	Effect of Compression Ratio on Performance, Combustion and Emis-sion Characteristics of a Diesel Engine Fueled with Rubber Seed Biodiesel–Diesel Blends. In: Re-vankar, S., Muduli, K., Sa-hu, D. (eds) Recent Ad-vances in Thermofluids and Manufacturing Engi-neering.	Lecture Notes in Mechanical Engineer-ing. Springer, Singapore. 291-302, https://doi.org/10.1007/978-981-19-4388-1_26
6	Jain, B.J. Bora, R. Kumar, A. Buradi (2023).	Comparative Study of Performance and Emis-sion of Biodiesel Pro-duced from Water Hya-cinth and Salvinia Moles-ta: A Critical Review. In: Revankar, S., Muduli, K., Sahu, D. (eds) Recent Ad-vances in Thermofluids and Manufacturing Engi-neering.	Lecture Notes in Mechanical Engineer-ing. Springer, Singapore. 377-388, https://doi.org/10.1007/978-981-19-4388-1_33
7	Jain, B.J. Bora, R. Kumar and S. Roy (2022)	The latest advancements in technology to utilize oxygenated biofuels in diesel engines, Advance-ment in Oxygenated Fuels for Sustainable Develop-ment.	Elsevier, 97-114. https://doi.org/10.1016/B978-0-323-90875-7.00015-0
8	Jain, B.J. Bora, and R. Kumar (2022)	Production, performance, and emission analysis of new generation biodiesel in an unmodified engine, Advancement in Oxygen-ated Fuels for Sustainable Development.	Elsevier, 199-220. https://doi.org/10.1016/B978-0-323-90875-7.00004-
9	Debasis De and Ha-keem Niyas US	Nanostructured semi-conductor metal oxides for dye-sensitized solar cells	Elsevier https://doi.org/10.1016/B978-0-323-91206-8.00019-4
10	K. Mukharjee, R K Layek and Debasis De	Tailored functional mate-rials	Springer
11	S Sundaram, Sa-ransh Chourey and Abhijeeth Rathore	Configurations of Con-verters Applied to Elec-tric Vehicles with Com-prehensive Control Strat-egies and Optimization	CRC Press, 2023. www.routledge.com/9781032164199 ISBN 9781032164199
12	D Rizvi, Roopa G Manjunatha, N Polai and D De	Performance Analysis of a Solar Power Plant	Lecture Notes in Electrical Engineer-ing book series - Springer, Singapore
13	Das A. and Roopa G Manjunatha,	Modeling of Graphene Oxide Coated QCM Sensor for E-Nose Appli-cation	Recent Trends in Materials - Springer, Singapore
14	Vaishak, Roopa G Manjunatha. and Manjunatha, G	Piezoelectric Energy Harvesting from automo-tive wheels	Recent Trends in Materials - Springer, Singapore
15	Monisha Manju-natha and Roopa G Manjunatha	Quasi-static failure analy-sis of lithiumion battery (LIB) used in the electric vehicle	Materials Today: Proceedings

पत्रिकाओं के संपादकीय बोर्ड

क्रम संख्या	संकाय सदस्य का नाम	पद (संपादक/सदस्य)	जर्नल का नाम
1	डॉ. शिवशंकर सुंदरम	Advisory and Editorial Member	Journal of Next Generation Technology ISSN: 2583-021X

वार्षिक प्रतिवेदन 2022-2023

डिजाइन और विकास गतिविधियाँ

नई सुविधाएं जोड़ी गईं

क्रम संख्या	विवरण (बुनियादी ढांचा, उपकरण, आदि)	मूल्य (लाख रुपये में)
संस्थान विकास		
1	Softwares 1. Labview 2. Multisim	18.00 Lakhs
2	Electric Vehicle Laboratory	120.00 Lakhs
डॉ. रूपा मंजूनाथ		
3	Syringe pump (Research)	0.50 Lakhs
डॉ. शिवशंकर सुंदरम		
4.	Thermal Imaging set up (Research)	1.57 Lakhs
5.	EL testing set up for Solar PV reliability (Research)	5.19 Lakhs

पेटेंट दाखिल किया गया

क्र.सं.	संकाय सदस्य का नाम	पेटेंट का शीर्षक
1	डॉ. अर्जुन देव	A suspension based integrated auxiliary power storage unit in an electric vehicle and method of operation thereof

अनुसंधान एवं परामर्श

क्रम संख्या	शीर्षक	अवधि	फंडिंग एजेंसी	राशि (लाख रुपये में)	समन्वयक
1	Development of catalyst-coupled photoelectrodes for renewable energy	2023-25	UGC-DAE Con-sortium for Sci-entific Research, Government of India	1.95 Lakhs	डॉ. देबासिस डी

क्रम संख्या	संकाय सदस्य का नाम	शीर्षक	उद्योग	राशि (लाख रुपये में)
1	डॉ. भास्कर जे बोरा	Technical support for in-stallation and commission-ing of North East India's largest Compressed Biogas Plant capacity of 8TPD under SATAT scheme	Gyan Jyoti Foun-dation and Red lemon Technolo-gies Pvt. Ltd, As-sam, India	Total cost of the plant is 20 crores

अनुसंधान प्रकाशन

क्र.सं.		सं.
1.	अंतर्राष्ट्रीय पत्रिकाओं में प्रकाशित पत्रों की कुल संख्या	37
2.	अंतर्राष्ट्रीय सम्मेलनों में प्रस्तुत पत्रों की कुल संख्या	9
3	अंतर्राष्ट्रीय सम्मेलनों में प्रस्तुत पत्रों की कुल संख्या	21

Refereed International Journals

1. A. Jain, B.J. Bora, R. Kumar, P. Sharma, B.J. Medhi, A.A. Farooque, V. Tirth, N. Senthilkumar, P.K. Peyyala, Impact of Titanium Dioxide (TiO₂) Nanoparticles Addition in Eichhornia Crassipes Biodiesel used to Fuel Compression Ignition Engine at Variable Injection Pressure, Case Studies in Thermal Engineering, 292, (2023), 103295, <https://doi.org/10.1016/j.csite.2023.103295>
2. M.J. Deka, P. Kalita, A.D. Kamble, B.J. Medhi, D. Das, P. Sharma, B.J. Bora (2023), An approach towards building robust neural networks models using multilayer perceptron through experimentation on different photovoltaic thermal systems, Energy and Conversion Management 292, (2023), 117395, <https://doi.org/10.1016/j.enconman.2023.117395>
3. S. Garg, B.J. Bora, K.P. Sharangi, P. Sharma, A. Burandi, A Novel Investigation using Thermal modeling and Optimization of Waste Pyrolysis Reactor Using Finite Element Analysis and Response Surface Methodology, Nature Scientific Reports, 13, (2023), 10931, <https://doi.org/10.1038/s41598-023-37793-8>
4. A. Jain, B.J. Bora, R. Kumar R, Energy, Exergy and Emission [3E] Analysis of Mesua Ferrea Seed Oil Biodiesel Fueled Diesel Engine at Variable Injection Timings, Fuel, 353, (2023), 129115, <https://doi.org/10.1016/j.fuel.2023.129115>
5. P. Paramasivam, P. Sharma, B.J. Bora, Application of Nanomaterials for Emission reduction from Diesel Engines powered with waste cooking oil Biodiesel and TiO₂ as an Additive, International Journal of low carbon Technologies, 18 (2023) 795–801 <https://doi.org/10.1093/ijlct/ctad060>
6. D. Barik, P. Sharma P, B.J. Medhi, B.J. Bora, Balasubramanian D, Exploration of the dual fuel combustion mode on a direct injection diesel engine powered with hydrogen as gaseous fuel in port injection and diesel-diethyl ether, International Journal of Hydrogen Energy (2023) Accepted (In Press), <https://doi.org/10.1016/j.ijhydene.2023.06.083>
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Computer Simulation Lab



Advanced Biofuel Testing Laboratory



Material Characterization Laboratory



Electric Vehicle Technology Laboratory

वर्ष 2022-23 का अंकेक्षित वित्तीय प्रतिवेदन

वर्ष 2022-23 का लेखा

आरजीआईपीटी के वर्ष 2022-23 का अंकेक्षित लेखा अनुसूची-1 में अनुलग्न किया गया है। लेखा के मुख्य बिन्दु निम्नलिखित हैं:-

1. कॉर्पस निधि/पूँजीगत निधि (तुलन-पत्र में अनुसूची-1)

जायस

33360.00 लाख रुपये के कॉर्पस निधि (जिसमें 25000.00 लाख रुपये सार्वजनिक क्षेत्र की तेल कंपनियों एवं ब्याज के रूप में प्राप्त राशि सम्मिलित है) को बैंक में सावधि जमा के रूप में निवेश किया गया। इन सावधि जमा से प्राप्त ब्याजों का उपयोग संस्थान के आवर्ती खर्चों को पूरा करने में किया जाता है जबकि शेष राशि का पुनः निवेश किया जाता है।

असम

25020.00 लाख रुपये के कॉर्पस निधि (जिसमें 14703.00 लाख रुपये सार्वजनिक क्षेत्र की तेल कंपनियों एवं ब्याज के रूप में प्राप्त राशि सम्मिलित है) को बैंक में सावधि जमा के रूप में निवेश किया गया। इन सावधि जमा से प्राप्त ब्याजों का उपयोग संस्थान के आवर्ती खर्चों को पूरा करने में किया जाता है जबकि शेष राशि का पुनः निवेश किया जाता है।

वर्ष के अंत में, व्यय के उपरान्त शेष राशि को बैंकों में सावधि जमा खातों में निवेश किया गया। गैर-व्यापार योग्य सरकारी प्रतिभूतियों को निम्न तरीके से वापस कॉर्पस निधियों में रखा गया है-

	जायस (लाख रुपये में)	असम (लाख रुपये में)
आय एवं व्यय खाता वर्ष 2022-23	शून्य	शून्य

पूँजीगत व्यय के लिए निधि

भारत सरकार एवं ओआईडीबी/सार्वजनिक क्षेत्र के उपक्रमों से 31 मार्च 2023 तक प्राप्त अनुदान एवं पूँजीगत निधि की स्थिति निम्नानुसार है:

क. जायस परिसर:

- भारत सरकार से 31.03.2023 तक 36910.00 लाख रुपये की निधि प्राप्त हुई। वर्ष के दौरान 2000 लाख रुपये रिजर्व निधि से अन्तरित हुयी।
- 31 मार्च 2023 तक ओआईडीबी से प्राप्त राशि 15000.00 लाख रुपये रही।

ख. असम केन्द्र

- भारत सरकार, सार्वजनिक क्षेत्र के उपक्रमों एवं ओआईडीबी से 31 मार्च 2023 तक प्राप्त कुल पूँजीगत राशि 20562.00 लाख रुपये रही।

ग. बंगलुरु केन्द्र

- भारत सरकार से 31.03.2023 तक 10000.00 लाख रुपये की निधि प्राप्त हुई।

2. संचय और अधिशेष (तुलन-पत्र में अनुसूची-2)

सामान्य संचय

वर्ष के दौरान 31 मार्च 2023 तक राशि 1379 लाख रुपये सामान्य संचय में व्यय के ऊपर आय अधिशेष से जमा की गई।

3. निर्धारित निधि (तुलनपत्र में अनुसूची-3)

31 मार्च 2023 को शेष 42.12 लाख रुपये की निर्धारित निधि, छात्रवृत्ति निधि से वर्ष के दौरान शून्य लाख रुपये छात्रवृत्ति वितरण के बाद बची राशि को प्रदर्शित करता है।

4. विलम्बित साख दायित्व (तुलनपत्र में अनुसूची-4)

31 मार्च 2023 को शेष बचे 721.10 लाख रुपये की निधि, विज्ञान व प्रौद्योगिकी विभाग, सर्व, परमाणु ऊर्जा विभाग आदि संगठनों से प्राप्त, शोध परियोजना अनुदान को प्रदर्शित करता है जिसका भविष्य में उपयोग किया जाना है।

5. चालू देयताएं एवं उसका प्रावधान (तुलनपत्र में अनुसूची-5)

- 31 मार्च 2023 को 929.98 लाख रुपये, बकाया बिलों की देनदारी को प्रदर्शित करता है।
- 109.84 लाख रुपये की देनदारी मार्च 2023 के लिए अप्रैल 2023 देय वैधानिक बकाया है।
- 449.51 लाख रुपये वापस किये जाने योग्य बयाना राशि (ईएमडी), सुरक्षा जमा राशि, प्रतधारण धन, छात्र/भूतपूर्व छात्र कल्याण नधिके शामिल हैं।
- वास्तविक मूल्यांकन के आधार पर चालू वर्ष के खातों में सेवानिवृत्ति लाभों एवं ग्रेच्युटी नकदीकरण के लिए 88419 लाख रुपये का प्रावधान किया गया है।
- यू.पी.एस.आई.डी.सी. से प्राप्त होने योग्य जमा शेष के प्रति ₹0 41.80 लाख का प्रावधान किया गया।

6. स्थायी सम्पत्तियां (तुलनपत्र में अनुसूची-6)

चालू वर्ष के दौरान ₹0 6317.24 लाख की पूँजीगत मदें सम्मिलित की गईं, जिनमें भवन, प्लांट एवं मशीनरी, फर्नीचर, निर्माण प्रबंधन प्रणाली, विद्युत उपकरण एवं अन्य सम्पत्तियां सम्मिलित थीं। इस स्थायी संपत्तियों

वार्षिक प्रतिवेदन 2022-2023

की कुल जोड़ भूमि सहित 54864.30 लाख रुपये रहा। जबकि वर्ष के दौरान मूल्यहास की 12805.37 लाख रुपये की राशि घटाने के बाद स्थायी संपत्तियों का मूल्य 42058.93 लाख रुपये रहा।

7. कार्यशील पूंजी (तुलनपत्र में अनुसूची-6)

31 मार्च 2023 तक जारी पूँजीगत कार्यों के मद में 10873.08 लाख रुपये खर्च किये गये जो सभी परियोजनाओं के लिए किया गया।

8. निवेश (तुलनपत्र अनुसूची 7 और 8)

निर्धारित निधि से 24.00 लाख रुपये का निवेश, शेवरान से छात्रवृत्ति के लिए प्राप्त निधि को प्रदर्शित करता है।

रुपये 88419 का निवेश तीनों केन्द्रों के लिए एल आई सी में सेवानिवृत्ति लाभों एवं ग्रेच्युटी नकदीकरण में किया गया।

9. चालू सम्पत्तियां व ऋण तथा अग्रिम (तुलन पत्र में अनुसूची 9)

31 मार्च 2023 को 95392.89 लाख रुपये के बैंक शेष में निम्नलिखित राशि शामिल है-

क. विभिन्न बैंकों में सावधि जमा में रखे 83593.00 लाख रुपये

ख. ऋण और अग्रिम में शामिल हैं:

- निवेश से ब्याज के रूप में प्राप्त 1021.70 लाख रुपये की राशि

10. आय (अनुसूची 10, 11 व 12)

कुल 6053 लाख रुपये की आय, जिसमें सावधि जमाओं से ब्याज के रूप में प्राप्त 3583.14 लाख रुपये (362.50 लाख रुपये की अन्य आय सहित)

एवं छात्रों से शुल्क और आवेदन शुल्क के रूप में प्राप्त 2107.45 लाख रुपये शामिल हैं।

11. व्यय (अनुसूची 13, 14 व 15)

चालू वर्ष एवं पिछले वर्ष के मुख्य मदवार व्यय को अनुसूची 13, 14 व 15 में दिखाया गया है व उसका सार नीचे तालिका में दिखाया गया है:

अनुसूची संख्या	व्यय	2021-22 (लाख रुपये में)	2022-23 (लाख रुपये में)
13	शैक्षिक	899.74	1114.08
14	स्थापना	2633.36	3153.33
15	अन्य प्रशासनिक	913.45	907.13
कुल		4446.55	5174.54

12. लेखा पर अंकेक्षण प्रतिवेदन

संस्थान के वित्तीय समिति और संचालक मंडल ने 31 जुलाई 2023 को हुई बैठक में वित्तीय वर्ष 2022-23 के लेखा एवं मुख्य निदेशक, वाणिज्यिक अंकेक्षण व पदेन सदस्य, अंकेक्षण मंडल-2, नई दिल्ली द्वारा दिये गये अंकेक्षण प्रतिवेदन को स्वीकृति प्रदान की।

मुख्य निदेशक, वाणिज्यिक अंकेक्षण व पदेन सदस्य, अंकेक्षण मंडल-2, नई दिल्ली के कार्यालय से प्राप्त प्रतिवेदन अंकेक्षण प्रतिवेदन संख्या- DGA/Rep/01-278/Acs-RGIPT/2022-23/730, दिनांक 22.02.2023 को अनुलग्नक-2 के रूप में प्रस्तुत किया गया है।

वित्तीय वर्ष 2022-23 का लेखा एवं तुलन पत्र



विधारत्नम् महद्भनम्

राजीव गांधी पेट्रोलियम प्रौद्योगिकी संस्थान
जायस, अमेठी, उत्तर प्रदेश



Rajiv Gandhi Institute of Petroleum Technology, Jais

(An Institution of National Importance Established under an Act of Parliament)

Jais, Amethi, Uttar Pradesh, India

ACCOUNTS FOR THE FINANCIAL YEAR 2022-23

1. BALANCE SHEET AS ON 31ST MARCH 2023
2. INCOME AND EXPENDITURE ACCOUNT FOR YEAR ENDED 31ST MARCH 2023
3. RECEIPT & PAYMENT ACCOUNT FOR YEAR ENDED 31ST MARCH 2023

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)				AMOUNT(₹)	
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS				BALANCE SHEET AS AT 31ST MARCH' 2023	
CORPUS/ CAPITAL FUND AND LIABILITIES	SCHEDULE	CURRENT YEAR	PREVIOUS YEAR		
CORPUS /CAPITAL FUND	1	13,77,27,87,080.67	13,69,45,08,197.07		
RESERVES AND SURPLUS	2	1,10,88,80,587.83	1,17,53,99,517.81		
EARMARKED / ENDOWMENT FUNDS	3	42,12,078.38	38,94,357.38		
DEFERRED CREDIT LIABILITIES	4	7,21,09,570.83	6,09,78,212.64		
CURRENT LIABILITIES AND PROVISIONS	5	80,21,57,826.87	1,20,05,70,507.49		
TOTAL		15,76,01,47,144.58	16,13,53,50,792.39		
ASSETS					
FIXED ASSETS	6	5,29,32,00,867.59	4,36,59,32,755.15		
INVESTMENTS- FROM EARMARKED/ENDOWMENT FUNDS	7	24,00,000.00	24,00,000.00		
INVESTMENTS-OTHERS	8	8,84,19,078.00	6,07,13,309.00		
CURRENT ASSETS, LOANS, ADVANCES ETC.	9	10,37,61,27,198.99	11,70,63,04,728.24		
TOTAL		15,76,01,47,144.58	16,13,53,50,792.39		
SIGNIFICANT ACCOUNTING POLICIES	17	Enclosed	Enclosed		
CONTINGENT LIABILITIES AND NOTES ON ACCOUNTS	18	Enclosed	Enclosed		
ASSISTANT REGISTRAR (ACCOUNTS)		REGISTRAR	DIRECTOR	PRESIDENT (BOG)	

Signed on: 20 JUL 2023

Page: 3 of 58

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)				AMOUNT (₹)	
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS					
INCOME AND EXPENDITURE FOR THE PERIOD/YEAR ENDED 31ST MARCH 2023					
INCOME	SCHEDULE	CURRENT YEAR	PREVIOUS YEAR		
FEES/SUBSCRIPTIONS	10	21,07,44,979.85	16,49,25,017.26		
INTEREST EARNED	11	35,83,13,517.00	37,96,10,577.49		
OTHER INCOME	12	3,62,50,049.47	2,64,44,459.14		
DEFERRED REVENUE INCOME (Depreciation)		18,20,31,681.00	15,39,28,606.71		
TOTAL - (A)		78,73,40,227.32	72,49,08,660.60		
EXPENDITURE					
ACADEMIC EXPENSES	13	11,14,08,188.85	8,99,74,429.35		
ESTABLISHMENT EXPENSES	14	31,53,32,664.00	26,33,35,672.00		
OTHER ADMINISTRATIVE EXPENSES	15	9,07,13,317.25	9,13,44,630.68		
DEFERRED REVENUE EXPENSES (Depreciation - corresponding to Schedule - 6)		18,20,31,681.00	15,39,28,606.71		
TOTAL - (B)		69,94,85,851.10	59,85,83,338.74		
EXCESS OF INCOME OVER EXPENDITURE FOR THE YEAR C = (A-B)		8,78,54,376.22	12,63,25,321.86		
ADD : PRIOR PERIOD ADJUSTMENT (NET) (D)	16	5,00,38,223.20	(6,11,88,900.06)		
NET EXCESS OF INCOME OVER EXPENDITURE (C+D)		13,78,92,599.42	6,51,36,421.80		
TRANSFER TO GENERAL RESERVE		13,78,92,599.42	6,51,36,421.80		
SURPLUS/(DEFICIT) CARRIED TO CORPUS/CAPITAL FUND		0.00	0.00		
SIGNIFICANT ACCOUNTING POLICIES	17	Enclosed	Enclosed		
CONTINGENT LIABILITIES AND NOTES ON ACCOUNTS	18	Enclosed	Enclosed		
ASSISTANT REGISTRAR (ACCOUNTS)		Director	PRESIDENT (BOG)		

Signed on: 20 JUL 2023

RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS RECEIPT AND PAYMENT ACCOUNT FOR THE YEAR ENDED 31ST MARCH 2023							
PREVIOUS YEAR	RECEIPTS	AMOUNT (Rs.)	AMOUNT (Rs.)	PREVIOUS YEAR	PAYMENTS	AMOUNT (Rs.)	AMOUNT (Rs.)
	<u>OPENING BALANCES</u>				<u>EXPENSES</u>		
	WITH SCHEDULED BANKS				Academic Expenses	11,55,96,085.85	
	IN SAVING ACCOUNTS				Establishment Expenses	31,53,78,560.00	
20,61,731.11	ICICI Bank- 000701260248	25,09,283.11		7,51,49,583.36	Administrative Expenses	9,16,99,648.50	
8,95,540.10	Allahabad Bank- 50327100399	-		1,13,57,735.37	Prior Period Expenditure	6,936.00	52,26,81,230.35
2,35,81,597.51	Allahabad Bank- 50192401170	(1,00,58,353.00)			<u>REFUNDS/OTHER PAYMENTS</u>		
37,36,80,196.24	Andhra Bank- 008410100027721	-		2,12,54,278.68	Utilization of Research/ Other Grants	2,80,76,694.89	
83,36,384.94	HDFC Bank- 00031110004499	93,800.94		-	Refund to Students	53,97,832.00	
41,16,72,101.30	Allahabad Bank- 50441574197	33,31,89,833.78		18,60,438.00	Institute Development Fund (Mess Fees)	-	
1,07,55,874.79	Bank of Baroda- 37350100004760	46,75,000.00		20,00,000.00	Institute Development Fund (Fund Transfer to NTPC Project)	-	
				29,29,519.00	Institute Development Fund (Fund utilised)	6,87,332.00	
1,13,251.00	ICICI Bank- 000701258840	1,13,251.00		-	SERB Project Fund Returned	11,38,323.40	
61,74,508.17	ICICI Bank- 034301002171	-		-	Statutory Liability Paid	12,39,54,233.00	
3,59,787.17	HDFC Bank (FCRA)- 00031170000095	-		-	Research Grant Refunded	25,71,089.00	
34,86,436.00	State Bank of India- 31936731040	41,27,203.00		-	Other Payments	76,28,357.00	
44,36,26,300.80	Andhra Bank- 008410100014268	-		-	Interest	50,000.00	
41,20,87,248.11	Bank of Baroda- 594801000000001	36,61,33,435.00		-			16,95,03,861.29

ASSISTANT REGISTRAR (ACCOUNTS)

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Page: 5 of 58

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RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS RECEIPT AND PAYMENT ACCOUNT FOR THE YEAR ENDED 31ST MARCH 2023							
PREVIOUS YEAR	RECEIPTS	AMOUNT (Rs.)	AMOUNT (Rs.)	PREVIOUS YEAR	PAYMENTS	AMOUNT (₹)	
						AMOUNT (Rs.)	AMOUNT (Rs.)
1,73,85,215.16	Bank of Baroda- 5948010000001382	10,62,52,923.89		-			
1,61,59,767.48	Corporation Bank- 520101258696679	-			<u>PAYMENTS</u>		
1,418.60	Corporation Bank- 520101255658060	6,73,557.00		2,80,69,796.97	Payment to Sundry Creditors	5,10,88,383.86	
4,24,784.00	Indian Overseas Bank- 125501000020082	8,03,382.00		6,07,13,309.00	Payment to Creditors For Others	6,46,49,253.36	
46,86,36,656.54	Corporation Bank- 520141001656188	-		14,19,734.58	Investment for Gratuity & Others	-	
10,56,702.00	Indian Bank- 50524153041	32,33,590.00		26,94,698.00	Payment For Inventories	-	
3,60,356.14	State Bank of India- 3478552906-2	35,12,467.12			Advance Paid to CPWD for Capital works	26,02,00,000.00	
-	Bank of Baroda- Chevron Scholarship Accounts- 1914	90,63,229.77			Payment for FDR	2,49,24,39,981.20	
-	Bank of Baroda- Fee- 1913	37,14,526.69			Payment to NCCL	62,81,19,733.00	
-	State Bank of India- Capital Account EIB- 082316	1,04,42,99,824.18			Payment to Nirmithi Kendra- Bengaluru	19,76,59,632.00	3,69,41,56,983.42
-	State Bank of India- Capital Account RGPT- 082860	70,05,48,087.84			<u>ADVANCES</u>		
-	State Bank of India- Capital Accounts AEI- 083148	1,45,27,42,267.34					
-	Bank of Baroda- RGPT, Raebareilly- 004760	11,027.48		1,17,181.00	Advance To Staff	-	

Assistant Registrar (Accounts)
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Registrar
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Director
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President (BOG)
[Signature]

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Signed on: 20 JUL 2023



Page: 7 of 58

RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS

RECEIPT AND PAYMENT ACCOUNT FOR THE YEAR ENDED 31ST MARCH 2023

PREVIOUS YEAR	RECEIPTS	AMOUNT (Rs.)	AMOUNT (Rs.)	PREVIOUS YEAR	PAYMENTS	AMOUNT (Rs.)	AMOUNT (Rs.)
	INTEREST EARNED						
76,07,099.00	Interest on Bank Guarantee Invoked	-					
1,77,04,829.00	Interest on FDRs - Capital Fund JAIS	1,36,84,962.00					
1,44,68,876.00	Interest on FDRs - Capital Fund (Assam)	2,20,61,262.00					
30,60,670.00	Interest on FDRs - Capital Fund (EIB)	1,42,31,613.00					
7,35,266.00	Interest received on Research Grants	27,47,572.00					
1,43,998.00	Interest on FDRs - Earmarked Endowment Fund	1,34,055.00					
36,72,06,880.49	Interest on FDRs - Scheduled Banks	38,99,58,561.00					
-	Interest received from Bank	1,29,62,119.00	45,57,89,144.00				
	REFUNDABLE/ TRANSFERABLE RECEIPTS						
-	P.Y. Accrued Income Received	-					
26,70,000.00	Security Deposit From Students	-					
3,62,000.00	Student Welfare Fund	-					
3,36,600.00	Student Fee Refundable	12,06,500.00					
4,89,800.00	Alumni Membership Fund	5,20,202.00					
21,28,980.00	Retention Money Received	-					

ASSISTANT REGISTRAR (ACCOUNTS)

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PRESIDENT (BOG)

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Signed on: 20 JUL 2023

Signed on: 20 JUL 2023

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RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS RECEIPT AND PAYMENT ACCOUNT FOR THE YEAR ENDED 31ST MARCH 2023							AMOUNT (₹)	
PREVIOUS YEAR	RECEIPTS	AMOUNT (₹s.)	AMOUNT (₹s.)	PREVIOUS YEAR	PAYMENTS	AMOUNT (₹s.)	AMOUNT (₹s.)	AMOUNT (₹s.)
	<u>Other Received</u>							
2,36,46,469.14	Received from Sundry Debtors	1,99,74,685.68		1,13,251.00	ICICI Bank - 600701258840	1,13,251.00		
3,75,813.00	Advances Received	-		41,27,203.00	State Bank of India - 31936731040	72,30,943.00		
24,19,686.00	On Capital Accounts	-		36,61,33,435.00	Bank of Baroda - 59480100000001	4,50,51,356.14		
5,00,000.00	Security Deposit Received	9,99,784.00		10,62,52,923.89	Bank of Baroda - 59480100000382	10,27,35,611.03		
-	Interest on IT Refund	3,76,038.00		6,73,557.00	Corporation Bank - 520101255658060	81,113.80		
1,76,50,88,642.00	FDR Matured	2,30,37,86,975.00		8,03,382.00	Indian Overseas Bank - 125501000000082	8,64,743.00		
17,20,354.00	Recovery of Staff Advance	20,03,845.00		32,33,590.00	Indian Bank - 50524153041	21,543.00		
-	Advance Settled by India Habitat Centre	38,864.00		35,12,467.12	State Bank of India - 3478552906-2	5,74,68,745.53		
-	IDF Advance Settled	14,624.00		90,63,229.77	Bank of Baroda - Chevron Scholarship Accounts-1914	15,520.90		
-	Tender Fees	62,080.00		37,14,526.69	Bank of Baroda - Fee-1913	95,62,489.22		
-	Sale of Old Bus	3,66,980.00		1,04,42,99,824.18	State Bank of India - Capital Account, EIB-082316	21,73,98,456.68		
-	Returned from Vendor	3,79,712.00		70,05,48,087.84	State Bank of India - Capital Account, Jais-082860	12,06,94,572.34		
				1,45,27,42,267.34	State Bank of India - Capital Account, AEI-083148	34,07,64,175.84		
Assistant REGISTRAR (ACCOUNTS)								
REGISTRAR								
DIRECTOR								
PRESIDENT (BOG)								

Contd.

20 JUL 2023

Signed on:

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RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS RECEIPT AND PAYMENT ACCOUNT FOR THE YEAR ENDED 31ST MARCH 2023							AMOUNT (₹)	
PREVIOUS YEAR	RECEIPTS	AMOUNT (₹)	AMOUNT (₹)	PREVIOUS YEAR	PAYMENTS	AMOUNT (₹)	AMOUNT (₹)	AMOUNT (₹)
-	Gratuity & Leave Encashment Contribution received from NIFTEM	3,50,446.00		11,027.48	Bank of Baroda - 004760 (Raebareilly)	14,038.36		
-	Leave Salary Contribution received from FSSAI	1,25,206.00		4,73,99,982.30	AEI Project Grant Account - 001915	6,44,70,623.40		
-	Service Benefits Received from IPE	1,39,039.00		35,57,892.00	Axis Bank - 583120	35,08,619.00		
-	Recovery of License Fees from Ph.D. Students	1,69,805.00		-	State Bank of India RGIPT Mess Fee A/c - 41137316469	2,77,15,431.97		
-	Convocation- Fees	1,81,500.00		-	Indian Bank - EIB - 7290143660	1,22,025.00		
-	RTI Fees	180.00		-	Canara Bank - 110076198882	89.60		
-	Income from Guest Hostel	10,20,354.00		-	Cheque-in-hand	6,040.00		
-	Rent Recovered from Bank of Baroda, RGIPT	45,240.00		(86,02,300.64)	Bank of Baroda - AEI Revenue Accounts - 1916	1,49,14,815.21		
-	Bonafide and Marksheet Verification Charges	2,06,304.76				1,17,99,93,577.85		
-	Vehicles Charges Recovered	1,05,824.20			WITH SCHEDULED BANKS			
-	Recovery of Electricity Charges	6,14,510.56		6,84,99,53,022.00	IN DEPOSIT ACCOUNTS	8,35,93,01,464.00		
			2,33,09,61,997.20	24,00,000.00	FDR with HDFC	24,00,000.00		9,54,16,95,041.85
Assistant Registrar (Accounts) <i>ph</i> Registrar <i>bandy</i> Director <i>Aie</i>							Contd. PRESIDENT (BOG)	

20 JUL 2023

Signed on:

RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS						
RECEIPT AND PAYMENT ACCOUNT FOR THE YEAR ENDED 31ST MARCH 2023						
PREVIOUS YEAR	RECEIPTS	AMOUNT (Rs.)	AMOUNT (Rs.)	PREVIOUS YEAR	PAYMENTS	AMOUNT (Rs.)
	CONTRA ITEMS					
16,99,770.00	Imprest Cash					
-	Payment to Creditors Cancel	11,88,119.00				
-	Cheque Cancelled- CPWD Dibrugarh, Assam	15,00,00,000.00		16,99,770.00	Imprest Cash	
-	Cheque Cancelled- Statutory Liabilities	2,76,66,808.00		1,76,50,88,642.00	Bank To Bank Transfer	
17,20,81,719.00	Cancelled Cheques - NCCL	54,15,40,477.00	72,03,95,404.00	-	Payment to Creditors Cancel	11,88,119.00
				-	Cheque Cancelled- Statutory Liability	2,76,66,808.00
				-	Cancelled Cheques- CPWD Dibrugarh, Assam	15,00,00,000.00
				16,79,12,509.00	Cancelled Cheques - NCCL	54,15,40,477.00
				17,20,354.00	Advance Staff/Others	72,03,95,404.00
13,60,78,42,033.17	TOTAL		14,79,93,19,387.55	13,60,78,42,033.17	TOTAL	14,79,93,19,387.55
ASSISTANT REGISTRAR (ACCOUNTS)		REGISTRAR		DIRECTOR		PRESIDENT (BOG)
[Signature]		[Signature]		[Signature]		[Signature]





Rajiv Gandhi Institute of Petroleum Technology, Jais
Jais, Amethi, Uttar Pradesh, India

ACCOUNTS FOR THE FINANCIAL YEAR 2022-23

SCHEDULES FORMING PART OF BALANCE SHEET AND INCOME & EXPENDITURE ACCOUNT

1.	SCHEDULE-1	CORPUS/CAPITAL FUND
2.	SCHEDULE-2	RESERVES AND SURPLUS
3.	SCHEDULE-3	EARMARKED/ENDOWMENT FUNDS
4.	SCHEDULE-4	DEFERRED CREDIT LIABILITIES
5.	SCHEDULE-5	CURRENT LIABILITIES AND PROVISIONS
6.	SCHEDULE-6	FIXED ASSETS
7.	SCHEDULE-7	INVESTMENTS FROM EARMARKED/ENDOWMENT FUNDS
8.	SCHEDULE-8	INVESTMENTS-OTHERS
9.	SCHEDULE-9	CURRENT ASSETS, LOANS & ADVANCES ETC.
10.	SCHEDULE-10	FEES/SUBSCRIPTIONS
11.	SCHEDULE-11	INTEREST EARNED
12.	SCHEDULE-12	OTHER INCOME
13.	SCHEDULE-13	ACADEMIC EXPENSES
14.	SCHEDULE-14	ESTABLISHMENT EXPENSES
15.	SCHEDULE-15	OTHER ADMINISTRATIVE EXPENSES
16.	SCHEDULE-16	PRIOR PERIOD ADJUSTMENT
17.	SCHEDULE-17	SIGNIFICANT ACCOUNTING POLICIES
18.	SCHEDULE-18	NOTES ON ACCOUNTS AND CONTINGENT LIABILITIES



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Page: 13 of 58

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS) NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH' 2023			AMOUNT(₹)	
SCHEDULE - 1 - CORPUS / CAPITAL FUND	CURRENT YEAR	PREVIOUS YEAR		
CAPITAL FUND- RGIPT				
Government of India Budgetary Support				
Balance as at the beginning of the year	4,27,37,92,017.00	4,25,60,87,188.00		
Add : Contribution during the year	0.00	0.00		
	4,27,37,92,017.00	4,25,60,87,188.00		
Less: Previous Year Adjustment against Capital Fund (Own Contribution)	0.00	13,69,00,000.00		
	4,27,37,92,017.00	4,11,91,87,188.00		
Capital Fund Jais (Own Contribution)				
Add : Contribution during the year	20,00,00,000.00	13,69,00,000.00		
	4,47,37,92,017.00	4,25,60,87,188.00		
Add : Interest for the year from Bank	1,36,84,962.00	1,77,04,829.00		
		4,48,74,76,979.00		
Capital Grant from Oil Industry Development Board				
Balance as at the beginning of the year	1,67,36,41,097.00	1,67,05,80,427.00		
Add : Contribution during the year	0.00	0.00		
Add : Interest for the year from Bank	0.00	30,60,670.00		
	1,67,36,41,097.00	1,67,36,41,097.00		
Less: Transfer to Assam Capital fund from Oil Companies During the Year	0.00	0.00		
		1,67,36,41,097.00		
			Contd ...	
ASSISTANT REGISTRAR (ACCOUNTS)	REGISTRAR	DIRECTOR	PRESIDENT (BOG)	

20 JUL 2023

Signed on: _____

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FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)			AMOUNT(₹)	
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS			PREVIOUS YEAR	
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH' 2023			CURRENT YEAR	
SCHEDULE - 1 - CORPUS / CAPITAL FUND				
CAPITAL FUND- AEI				
Balance as at the beginning of the year	1,96,66,66,649.00		1,06,54,97,773.00	
Add: Contribution during the year	0.00		1,00,00,00,000.00	
Less: Transfer to Assam Corpus	0.00		-49,00,00,000.00	
Add : Received from Capital Grant from O.N.G.C. Ltd.	0.00		32,93,00,000.00	
Add : Received from Capital Grant from G.A.I.L	0.00		4,74,00,000.00	
Add : Received from Capital Grant from Oil India Ltd.	3,83,00,000.00		0.00	
Add : Interest from Bank	5,12,31,126.00	2,05,61,97,775.00	1,44,68,876.00	1,96,66,66,649.00
CAPITAL FUND- EIB				
Balance as at the beginning of the year	1,00,00,00,000.00			
Add : Contribution during the year	0.00		1,00,00,00,000.00	
Add : Interest for the year from Bank	5,24,23,192.00	1,05,24,23,192.00		1,00,00,00,000.00
TOTAL CAPITAL FUND		9,26,97,39,043.00		8,91,40,99,763.00
Less : Capital Fund Adjustment- AEI (Depreciation)				
Up to previous year	1,13,77,456.61		94,67,854.28	
During the current year	99,25,252.60		19,09,602.33	
	2,13,02,709.21		1,13,77,456.61	
Less : Capital Fund Adjustment- EIB (Depreciation)				
Up to previous year	17,21,635.83		17,21,635.83	
During the current year	41,23,476.80			
	58,45,112.63		17,21,635.83	
ASSISTANT REGISTRAR (ACCOUNTS)				
REGISTRAR				
DIRECTOR				
PRESIDENT (BOG)				

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Signed on: 20 JUL 2023

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FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)			
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS			
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH' 2023			
SCHEDULE - 1 - CORPUS / CAPITAL FUND	AMOUNT(R)		
	CURRENT YEAR	PREVIOUS YEAR	
Less : Capital Fund Adjustment- RGIFT (Depreciation)			
Up to previous year	1,03,75,37,288.04	88,72,39,919.49	
During the current year	27,03,11,667.00	15,02,97,368.55	
	1,30,78,48,955.04	1,03,75,37,288.04	1,05,06,36,380.48
CORPUS FUND			
AEI, SIVASAGAR			
Balance as at the beginning of the year	2,49,50,27,926.42	2,00,50,27,926.42	
Add : Transfer from Capital Fund Assam	0.00	49,00,00,000.00	
Add : Corpus Fund Received From Oil Companies	70,00,000.00	0.00	
Less: Transfer to Assam Capital Fund			2,49,50,27,926.42
RGIFT, JAIS			
Balance as at the beginning of the year			
Fund Balance	3,33,60,16,888.13	3,33,60,16,888.13	
Surplus Interest	0.00	0.00	
Add: P.Y Adjustment- Amount wrongly debited to Corpus Fund	0.00	0.00	
Excess of Income over Expenditure	0.00	0.00	
Add: Contributions received during the year	3,33,60,16,888.13	3,33,60,16,888.13	
	0.00	0.00	
Add: Surplus Funds Allocated	3,33,60,16,888.13	3,33,60,16,888.13	
Add: Transfer from Income & Expenditure	0.00	0.00	
	0.00	0.00	3,33,60,16,888.13
Total			
BALANCE AS AT THE YEAR END			
	5,83,80,44,814.55		5,83,10,44,814.55
	13,77,27,87,080.67		13,69,45,08,197.07
ASSISTANT REGISTRAR (ACCOUNTS)	REGISTRAR	DIRECTOR	PRESIDENT (BOG)

Signed on: 20 JUL 2023

Page: 16 of 58

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS) NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH' 2023				AMOUNT(₹)	
SCHEDULE - 2 - RESERVES AND SURPLUS		CURRENT YEAR		PREVIOUS YEAR	
1. CAPITAL RESERVE					
As per last account		5,08,00,831.59		5,08,00,831.59	
Addition during the year		0.00		0.00	
Less : Deductions during the year		0.00	5,08,00,831.59	0.00	5,08,00,831.59
2. CONTINGENT FUND- (PREVIOUSLY DEPRECIATION FUND)					
As per last account		0.00		29,20,27,226.50	
Add/ Less : Prior period Adjustment (P. Y. Depreciation adjusted)		0.00		0.00	
Less during the year - Transfer to General Reserve		0.00		29,20,27,226.50	
Add : Interest Earned on Investment of Fund during the year		0.00		0.00	
3. GENERAL RESERVE			0.00		0.00
As per last account		1,09,14,15,363.82		73,42,51,715.52	
Less: Transfer to Institute Development Fund		0.00		0.00	
Less: Transfer to Capital Fund (Own Contribution)		20,00,00,000.00		0.00	
Less: Transfer to Institute Development Fund		0.00		0.00	
Less: Transfer to Depreciation Fund		0.00		0.00	
Add: Transfer from Contingent Fund		89,14,15,363.82		73,42,51,715.52	
Addition during the year (Excess of Income over Expenditure)		13,78,92,599.42	1,02,93,07,963.24	29,20,27,226.50	
				6,51,36,421.80	1,09,14,15,363.82
ASSISTANT REGISTRAR (ACCOUNTS) 		REGISTRAR 	DIRECTOR 	PRESIDENT (BOG) 	

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20 JUL 2023

Signed on: _____

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FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)			
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS			
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH' 2023			
SCHEDULE - 2 - RESERVES AND SURPLUS	CURRENT YEAR		PREVIOUS YEAR
AMOUNT(₹)			
4. RESEARCH & DEVELOPMENT			
As per last account	17,79,182.60		27,88,505.60
Addition during the year	0.00		0.00
Less: Transfer to Institute Development Fund	5,00,000.00		0.00
Less: Fund Utilised	12,79,182.60	0.00	10,09,323.00
			17,79,182.60
5. INSTITUTE DEVELOPMENT FUND			
As per last account	3,14,04,139.80		2,33,99,305.00
Add: Fund for Payment of Mess Bill	18,60,438.00		0.00
Add : Other Income (Grant Overhead)	30,46,900.00		23,23,060.00
Add: Transfer from HAL Korwa	-1,24,71,731.80		1,24,71,731.80
Add : Fund Transfer to NTPC Project	42,44,715.00		-20,00,000.00
Add : Fund Transfer from Research & Development	5,00,000.00		0.00
Less: Fund Utilised	1,87,332.00	2,87,71,793.00	-47,89,957.00
			3,14,04,139.80
BALANCE AS AT THE YEAR END		1,10,88,80,587.83	1,17,53,99,517.81
ASSISTANT REGISTRAR (ACCOUNTS)	REGISTRAR	DIRECTOR	PRESIDENT (BOG)

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20 JUL 2023

Signed on: _____

Page: 18 of 58

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)					
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS					
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH' 2023					
SCHEDULE - 3 - EARMARKED / ENDOWMENT FUND	AMOUNT(₹)		AMOUNT(₹)		AMOUNT(₹)
	CURRENT YEAR	AMOUNT(₹)	CURRENT YEAR	AMOUNT(₹)	PREVIOUS YEAR
	Opening Balance	Receipts During the year	Closing Balance		
SCHOLARSHIP/ OTHER GRANTS	38,94,357.38			38,94,357.38	37,50,359.38
a) Opening Balance of the Funds					
b) Additions to Funds					
i. Donations/Grants					
Bhaskar Research Internship	0.00	0.00	0.00	0.00	0.00
Zila Kalyan Karayalaya- Saran/Padmadhikari	0.00	0.00	0.00	0.00	0.00
Bihar State Education Finance Corporation Ltd.	0.00	4,53,632.00	1,83,666.00	0.00	0.00
Director of Technical Education	0.00	0.00	0.00	0.00	0.00
Social Welfare Board Raebareli/	0.00	0.00	0.00	0.00	0.00
District Welfare/Jharkhand State Tribal	0.00	0.00	0.00	0.00	0.00
Scholarship Grant from ONGC	0.00	0.00	0.00	0.00	0.00
Central Sector Scholarship Scheme (MOSIE)	0.00	0.00	0.00	0.00	0.00
ii. Prior Period Adjustments	0.00	0.00	0.00	0.00	0.00
Less: Refunds	0.00	4,53,632.00	1,83,666.00	0.00	0.00
iii. Interest on Investments-					
On Earmarked Funds (Chevron)		134055.00	0.00	1,34,055.00	0.00
Interest Adjustment on Investment-			0.00	-	1,43,998.00
On Earmarked Funds (Chevron)					
TOTAL (a+b)		5,87,687.00		42,12,078.38	38,94,357.38
Assistant Registrar (Accounts)		Director		President (BOG)	
Registrar		Director		President (BOG)	

Signed on: 20 JUL 2023

Page: 19 of 58

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)					
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS					
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH' 2023					
SCHEDULE - 3 - EARMARKED / ENDOWMENT FUND	AMOUNT(₹)	AMOUNT(₹)		AMOUNT(₹)	
	CURRENT YEAR Opening Balance	CURRENT YEAR Receipts During the year	CURRENT YEAR Closing Balance	PREVIOUS YEAR	
c) Utilisation / Expenditure towards objectives of the Funds					
i. Capital Expenditure					
ii. Revenue Expenditure					
Other Expenditure (Scholarship Distributed)					
Chevron Scholarship	0.00	0.00	0.00	0.00	0.00
Bhaskar Research Internship Award	0.00	0.00	0.00	0.00	0.00
Zila Kalyan Karyalaya- Saran/Padhatikari	0.00	0.00	0.00	0.00	0.00
Unnat Bharat Abhiyan	0.00	0.00	0.00	0.00	0.00
Social Welfare Board Raebareli/District Welfare/Jharkhand State Tribal	0.00	0.00	0.00	0.00	0.00
Bihar State Education Finance Corporation Ltd.	0.00	2,69,966.00	0.00	0.00	0.00
Director of Technical Education	0.00	0.00	0.00	0.00	0.00
Scholarship Grant ONGC	0.00	0.00	0.00	0.00	0.00
Central Sector Scholarship Scheme (MOSJE)	0.00	0.00	2,69,966.00	0.00	0.00
TOTAL (c)			2,69,966.00	0.00	0.00
NET BALANCE AS AT THE YEAR END (a+b-c)		38,94,357.38	3,17,721.00	42,12,078.38	38,94,357.38

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ASSISTANT REGISTRAR (ACCOUNTS)

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DIRECTOR

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PRESIDENT (BOG)

Page: 20 of 58

AMOUNT(₹)

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PRESIDENT (BOG)

Page: 21 of 58

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FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)			
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS			
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH' 2023			
SCHEDULE - 4 - DEFERRED CREDIT LIABILITIES	CURRENT YEAR	PREVIOUS YEAR	AMOUNT(₹)
Dr. Debashis Panda - CSIR	2,69,226.12	4,77,816.12	
Niharika Pandey - DST	5,962.00	2,19,109.00	
Dr. G.K. Agrahari - DST	3,30,168.00	15,26,411.00	
Prof. A.S.K. Sinha - DST	96,40,762.00	1,81,34,000.00	
Dr. P.K. Parida - Minority Affairs	14,84,185.00	14,84,185.00	
Dr. Arshad Aijaz - SERB	6,710.00	6,710.00	
Dr. G.R. Dilip - DST	1,520.77	13,02,641.00	
Dr. K.G. Biswas - CSIR	1,74,237.00	7,125.00	
Dr. Arshad Aijaz - CSIR	10,184.00	4,29,791.00	
Prof. A.S.K. Sinha - PCRA	8,02,809.00	19,20,000.00	
Grant Received	3,59,087.00	3,59,087.00	
Dr. Debashis Panda - SERB	5,99,878.63	3,95,049.63	
Dr. Shikha Singh - DST	0.00	18,38,385.00	
Dr. U.P. Ojha - NTPC	5,42,360.00	41,18,106.00	
Scholarship - Ministry of Social Justice	41,360.00	1,30,000.00	
Scholarship - ONGC	60,000.00	60,000.00	
Dr. Alex Kumar Singh - AICTE	1,18,505.00	1,18,505.00	
Dr. Anirban Mukherjee - ICSSR	17,712.00	39,600.00	
Mr. Jyoti (Ph.D) - DST	-16,000.00	4,21,760.00	
Construction of Incubation Centre - HAL, Korwa	2,40,67,495.71	1,65,71,344.80	
Gyan Arpan Project - HAL, Korwa	1,05,99,313.60	54,22,030.00	
Dr. Susham Biswas - SCM	1,50,000.00	1,50,000.00	
ASSISTANT REGISTRAR (ACCOUNTS)	REGISTRAR	DIRECTOR	PRESIDENT (BOG)

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Signed on: 20 JUL 2023

Page: 22 of 58

Contd ...

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)		
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS		
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH' 2023		
SCHEDULE - 4 - DEFERRED CREDIT LIABILITIES	CURRENT YEAR	PREVIOUS YEAR
Dr. Satish Sinha - SEG	11,814.00	1,41,288.00
Dr. V.S. Sistla - CSIR	1,80,000.00	0.00
Interest on Grant	35,92,726.00	8,66,792.00
Dr. Milan Kumar - DSIR	-2,17,966.40	0.00
Dr. Vishnu C - SERB	0.00	17,00,000.00
Dr. J. Karthikeyan - DST	0.00	20,26,539.69
Dr. Tushar Sharma - ONGC	10,44,944.00	0.00
Dr. Abhishek Kumar - SERB	19,27,608.00	0.00
Dr. Shailesh Kumar - SERB	10,23,000.00	0.00
Dr. U.P. Ojha - SERB	18,08,000.00	0.00
Dr. Vipin Amoli - SERB	14,49,450.00	0.00
Dr. Tathamay Basu - SERB	22,78,486.00	0.00
Dr. Tushar Sharma - SERB	8,18,949.00	0.00
Dr. Karan Malik - SERB	17,52,888.00	0.00
Dr. Tathamay Basu - DAE	49.00	0.00
Dr. Satish Sinha - OIL	6,96,432.00	0.00
Dr. S. Shivsankari - SERB	4,792.00	0.00
Dr. S. Kundu - SERB	6,66,625.00	0.00
ASSISTANT REGISTRAR (ACCOUNTS)	REGISTRAR	PRESIDENT (BOG)

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Signed on: 20 JUL 2023

Page: 23 of 58

Contd.

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)			
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS			
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH' 2023			
SCHEDULE - 4 - DEFERRED CREDIT LIABILITIES	CURRENT YEAR	PREVIOUS YEAR	AMOUNT (₹)
Dr. Mohd. Irfan - ISM	1,81,559.00	0.00	
Mr. Divyanshoo (Ph.D.) - DST	-20,000.00	0.00	
Dr. Amit Saxena - HPCL	3,34,800.00	0.00	
Dr. Alok Kumar Singh - OIL	8,04,536.00	0.00	
Dr. Alpesh Kumar - SERB	2,20,000.00	0.00	
Dr. Shivanjali Sharma - SERB	28,33,470.00	0.00	
Grant from Department of Atomic Energy	2,06,000.00	0.00	
Dr. Satish Kumar Sinha - DGH Project	-22,354.00	0.00	
Mr. Prasad BSN - KSCC (Bengaluru)	10,000.00	0.00	
Grant from CSIR- Dr. K. G. Biswas	1,15,292.00	1,15,292.00	
TOTAL	7,21,09,570.83		6,09,78,212.64
NOTE : Amounts due within one year	7,21,09,570.83		6,09,78,212.64
<i>Dr. Dendra</i> REGISTRAR <i>Dr. Aice</i> DIRECTOR <i>Dr. S. S. S.</i> PRESIDENT (BOG) ASSISTANT REGISTRAR (ACCOUNTS)			

Signed on: 20 JUL 2023

Page: 24 of 58

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS) NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH' 2023				AMOUNT(₹)	
SCHEDULE - 5 - CURRENT LIABILITIES & PROVISIONS		CURRENT YEAR		PREVIOUS YEAR	
A. CURRENT LIABILITIES					
1. Sundry Creditors					
a) For Goods/Services		8,96,76,780.94	9,29,97,816.27	6,39,34,846.95	30,62,57,726.47
b) Others		33,21,035.33		24,23,22,879.52	
2. Advance Fees Received from Students		6,06,26,450.00	6,06,26,450.00	2,38,93,215.02	2,38,93,215.02
3. (a) Statutory Liabilities		1,09,83,857.00	1,09,83,857.00	88,90,852.00	88,90,852.00
b) Others		-		-	
4. Other Current Liabilities					
a) Preliminary Fund - Bangalore - Opening Balance		50,00,00,000.00	50,00,00,000.00	50,00,00,000.00	50,00,00,000.00
Received during the year		-		-	
Less (Add) : Refunds		-		-	
b) Alumni Fund		25,61,821.00		20,62,400.00	
c) Student Welfare Fund		15,91,558.00		10,85,558.00	
d) Scholarship & Stipend Payable to Ph.D. Students		968.00		6,30,900.00	
e) Others		7,24,384.00		-	
f) Faculty/ Staff		2,50,963.00		-1,17,181.00	
g) B Tech Fees refundable		3,36,600.00		3,36,600.00	
h) Caution Money Payable		1,09,67,800.00		71,32,800.00	
i) Fund for AAPG Student Chapter		64,453.00	1,64,98,547.00	30,238.00	40,76,515.00
5. Retention Money of Vendors		2,33,20,897.60		2,21,30,243.00	
6. Earnest Money Deposit/Security Deposit		51,31,173.00	2,84,52,070.60	74,38,415.00	3,66,53,458.00
TOTAL (A)			70,95,58,740.87		87,97,71,766.49
ASSISTANT REGISTRAR (ACCOUNTS) 		REGISTRAR 	DIRECTOR 	PRESIDENT (BOG) 	Contd ...

Signed on: 20 JUL 2023

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FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)			
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS			
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH' 2023			
SCHEDULE - 5 - CURRENT LIABILITIES & PROVISIONS	CURRENT YEAR	PREVIOUS YEAR	AMOUNT(₹)
B PROVISIONS			
1. Provision for Gratuity - JAIS	3,02,49,506.00		2,57,90,278.00
2. Provision for Leave Encashment -JAIS	5,07,40,206.00		3,75,08,563.00
3. Provision For Gratuity Assam	29,03,512.00		42,54,571.00
4. Provision For Gratuity Banglore	13,26,382.00		12,92,645.00
5. Provision For Leave Encashment Bangalore	10,33,889.00		11,76,817.00
6. Provision For Leave Encashment Assam	21,65,583.00		21,00,104.00
7. Provision against NCCL Final Bill	-		22,66,53,046.00
8. Provision for Doubtful Debts (UPSIDC)	41,80,008.00		41,80,008.00
9. Provision against PMC Fess JAIS	-		1,78,42,709.00
TOTAL (B)	9,25,99,086.00		32,07,98,741.00
TOTAL (A+B)	80,21,57,826.87		1,20,05,70,507.49
ASSISTANT REGISTRAR (ACCOUNTS)	REGISTRAR	DIRECTOR	PRESIDENT (BOG)

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)												
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS												
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH' 2023												
SCHEDULES - 6 - FIXED ASSETS												
DESCRIPTION	Rate of Depreciation	GROSS BLOCK			DEPRECIATION				NET BLOCK			
		COST AS AT BEGINNING OF THE YEAR	ADDITIONS DURING THE YEAR	DEDUCTIONS/ADD DURING THE YEAR	COST/AT THE YEAR-END	AS AT BEGINNING OF THE YEAR	DURING THE YEAR	Prior Period Adjustment	ON DEDUCTIONS/ADD DURING THE YEAR	TOTAL UP TO THE YEAR-END	AS AT THE CURRENT YEAR-END	AS AT THE PREVIOUS YEAR-END
A. FIXED ASSETS- TANGIBLE												
1. LAND												
a) Freehold- RGIP, Jais	0.00%	44703297	0.00	0.00	44703297	0.00	0.00	0.00	0.00	0.00	44703297	44703297
b) Freehold- AEL Sivassagar	0.00%	6097535	0.00	0.00	6097535	0.00	0.00	0.00	0.00	0.00	6097535	6097535
c) Lease Hold Land- ELB	0.00%	150	0.00	0.00	150	0.00	0.00	0.00	0.00	0.00	150	150
2. BUILDINGS												
a) On Freehold Land- RGIP, Jais	2.00%	3521311851	400341099.00	17842709.00	3903810241	468465115	71900381.21	48096796.71	0.00	588462292.51	3315347948	3052846736
b) On Freehold Land- AEL Sivassagar	2.00%	0	95892969.00	0.00	95892969	0	1908752.58	4400754.18	0.00	6309506.75	89583462	0
3. PLANT & MACHINERY												
a) General Equipment	5.00%	171990389	0.00	0.00	171990389	85688910	8599519.45	0.00	0.00	94288429.80	77701959	86301479
b) Airconditioners	5.00%	91627855	0.00	0.00	91627855	45650756	4581392.75	0.00	0.00	50232149.00	41395706	45977099
c) Lab Equipments- RGIP, Jais	8.00%	361941969	85585803.22	0.00	447527772	87983314	32291913.42	0.00	0.00	120275227.34	327252545	273958655
d) Lab Equipment- AEL Sivassagar	8.00%	7287066	1629271.00	0.00	8916337	248709	599756.28	0.00	0.00	848465.12	8067872	7038357
e) Lab Equipments- ELB	8.00%	3707639	6684386.00	0.00	10392025	33652	519486.12	0.00	0.00	553138.54	9838886	3673987
f) Fire Fighting System	5.00%	54944027	0.00	0.00	54944027	27374169	2747201.35	0.00	0.00	30121370.40	24822657	27569858
g) Telecom Network	5.00%	59058373	0.00	0.00	59058373	20690709	2952918.65	0.00	0.00	23643627.60	35414745	38367664
h) Building Management System	5.00%	46814361	0.00	0.00	46814361	30262598	2340718.05	0.00	0.00	32603316.20	14211045	16551763
Comd												
ASSISTANT REGISTRAR (ACCOUNTS)		REGISTRAR			DIRECTOR			PRESIDENT (BOG)				

Signed on: 20 JUL 2023

Contd.

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)											
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS											
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH 2023											
SCHEDULES - 6 - FIXED ASSETS											
DESCRIPTION	Rate of Depreciation	GROSS BLOCK				DEPRECIATION				AMOUNT (₹)	
		COST AS AT BEGINNING OF THE YEAR	ADDITIONS DURING THE YEAR	DEDUCTIONS/ADJ. DURING THE YEAR	COST/AT THE YEAR-END	AS AT BEGINNING OF THE YEAR	DURING THE YEAR	Prior Period Adjustment	ON DEDUCTIONS/ADJ. DURING THE YEAR	TOTAL UP TO THE YEAR-END	NET BLOCK AS AT THE CURRENT YEAR-END
4. VEHICLES	10.00%	15194160	11734.00	1461000.00	13744894	13781300	1413140.60	0.00	1461000.00	13733440.50	11453
5. FURNITURE, FIXTURES											1412860
RGPT, Jais	7.50%	108280662	5007434.00	0.00	113288096	48029180	8204962.12	0.00	0.00	56234141.81	57053954
EIB	7.50%	1555850	0.00	0.00	1555850	223372	116688.75	0.00	0.00	340061.01	1215789
AEI, Sivasagar	7.50%	14862080	940040.00	0.00	15802120	3584854	1241072.90	0.00	0.00	4825926.81	10976193
6. OFFICE EQUIPMENTS											11277226
RGPT, Jais	7.50%	3315330	483100.00	0.00	3798430	2010604	287908.53	0.00	0.00	2298512.88	1499917
AEI, Sivasagar	7.50%	143651	17259.00	0.00	160910	87118	11974.86	0.00	0.00	99092.98	61817
7. COMPUTER/ PERIPHERALS											56533
RGPT, Jais	20.00%	97895168	21849600.00	0.00	119744768	87382792	22463506.12	0.00	0.00	109846598.16	9898470
AEI, Sivasagar	20.00%	6258538	275615.00	0.00	6534153	1390613	1285900.23	0.00	0.00	2676512.90	3857640
EIB	20.00%	14117536	1550000.00	0.00	15667536	2036904	3142849.67	0.00	0.00	5179753.24	10487783
8. ELECTRIC EQUIPMENTS											12080632
RGPT, Jais	5.00%	191654906	3799699.00	0.00	195454605	101297830	9635907.60	0.00	0.00	110931737.47	84522868
AEI, Sivasagar	5.00%	2954332	242520.00	0.00	3196852	265995	151148.82	0.00	0.00	417143.33	2779709
9. LIBRARY BOOKS											2688337
RGPT, Jais	10.00%	19631987	838794.00	0.00	20470781	11115420	1997420.38	0.00	0.00	13112840.41	7357941
AEI, Sivasagar	10.00%	479576	569349.00	0.00	1048925	271531	61226.17	0.00	0.00	332756.94	716168
EIB	10.00%	2843569	0.00	0.00	2843569	1609998	284356.87	0.00	0.00	1894354.90	949214

Contd.

PRESIDENT (BOG)

DIRECTOR

REGISTRAR

ASSISTANT REGISTRAR (ACCOUNTS)

Signed on: 20 JUL 2023

Contd

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)												
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS												
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH' 2023												
SCHEDULES - 6 - FIXED ASSETS												
DESCRIPTION	Rate of Depreciation	GROSS BLOCK				DEPRECIATION				NET BLOCK		AMOUNT (₹)
		COST AS AT BEGINNING OF THE YEAR	ADDITIONS DURING THE YEAR	DEDUCTIONS/ ADJ. DURING THE YEAR	COST/ AT THE YEAR-END	AS AT BEGINNING OF THE YEAR	DURING THE YEAR	Prior Period Adjustment	ON DEDUCTIONS/ ADJ. DURING THE YEAR	TOTAL UP TO THE YEAR-END	AS AT THE CURRENT YEAR-END	
10. OTHER FINED ASSETS												
RGIPT, Jais	7.50%	19843198	228578.00	0.00	20071776	3639944	1491241.30	0.00	0.00	5131185.40	14940591	16203254
AEI, Sivassagar	7.50%	156409	48993.00		205402	70446	12254.16	0.00	0.00	82700.46	122702	85963
11. HOSTEL EQUIPMENTS- RGIPT, Jais	7.50%	4472238	23750.00	0.00	4495988	4166969	329018.11	0.00	0.00	4495987.02	1	305269
B. FIXED ASSETS - INTANGIBLE												
I. PATENT & COPYRIGHTS	11.11%	494836	0.00	0.00	494836	54976.28	54976.28	0.00	0.00	109952.56	384883	439860
2. SOFTWARE	40.00%	371401	5703987.00	0.00	6075388	51690.85	1496087.93	0.00	0.00	1457778.79	4617609	319710
TOTAL OF CURRENT YEAR		4874009937	631723980	19303709	5486430209	1047469469	182031681.26	52497550.89	1461000.00	1280537701	4205892508	3826540469
PREVIOUS YEAR		4666089914	208023837	103814	4874009937	843709697	153928607	49831165	-	1047469469	3826540469	3822380217
ASSISTANT REGISTRAR (ACCOUNTS)						PRESIDENT (BOG)						
[Signature]						[Signature]						
REGISTRAR						DIRECTOR						

Signed on: 20 JUL 2023

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)												
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS												
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH' 2023												
SCHEDULES - 6 - FIXED ASSETS												
DESCRIPTION	Rate of Depreciation	GROSS BLOCK			DEPRECIATION				NET BLOCK		AMOUNT (₹)	
		COST AS AT BEGINNING OF THE YEAR	ADDITIONS DURING THE YEAR	DEDUCTIONS/ ADD. DURING THE YEAR	COST/ AT THE YEAR-END	AS AT BEGINNING OF THE YEAR	DURING THE YEAR	Prior Period Adjustment	ON DEDUCTIONS/ ADD. DURING THE YEAR	TOTAL UP TO THE YEAR-END		AS AT THE CURRENT YEAR-END
CAPITAL WORK - IN - PROGRESS												
A- RGIPT, JAIS PROJECT-												
a) Amenities- Faculty & Staff		389350	58557	0.00	447907	0.00	0.00	0.00	0.00	0.00	447907	389350
b) Fixed Assets		106923432.05	13559204	30907364	89575272	0.00	0.00	0.00	0.00	0.00	89575271.98	106923432.05
c) Lab Equipment		1923196	8201912	9020912	1104196	0.00	0.00	0.00	0.00	0.00	1104196	1923196
d) Building under Construction		69704626	252788886.00	0.00	322493512	0.00	0.00	0.00	0.00	0.00	322493512	69704626
e) Swami Vivekanand Statue		885000	0.00	0.00	885000	0.00	0.00	0.00	0.00	0.00	885000	885000
TOTAL - A		179825604	274608560	39928277	414595887	0.00	0.00	0.00	0.00	0.00	414595887	179825604
B- AEL SIVASAGAR PROJECT												
a) Project Management Expenses		26894241	0.00	0.00	26894241	0.00	0.00		0.00	0.00	26894241	26894241
b) Project Management Fees		25016040	0.00	0.00	25016040	0.00	0.00	0.00	0.00	0.00	25016040	25016040
c) Civil Work In-Progress		258318636	322452032	116941841.00	463828827	0.00	0.00	0.00	0.00	0.00	463828827	258318636
d) Lab Equipment		3966690	0	0.00	3966690	0.00	0.00	0.00	0.00	0.00	3966690	3966690
e) Secured Advance Against Material		0	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0	0
TOTAL - B		314195607	322452032	116941841.00	519705798	0.00	0.00	0.00	0.00	0.00	519705798	314195607
Total												
Comd -												
ASSISTANT REGISTRAR (ACCOUNTS)						REGISTRAR			DIRECTOR			PRESIDENT (BOG)
												

Contd.

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)												
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS												
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH' 2023												
SCHEDULES - 6 - FIXED ASSETS												
DESCRIPTION	Rate of Depreciation	GROSS BLOCK				DEPRECIATION				NET BLOCK		
		COST AS AT BEGINNING OF THE YEAR	ADDITIONS DURING THE YEAR	DEDUCTIONS/ ADL DURING THE YEAR	COST/ AT THE YEAR-END	AS AT BEGINNING OF THE YEAR	DURING THE YEAR	Prior Period Adjustment	ON DEDUCTIONS/ ADL DURING THE YEAR	TOTAL UP TO THE YEAR-END	AS AT THE CURRENT YEAR-END	AS AT THE PREVIOUS YEAR-END
C - EIB PROJECT												
a) Building under Construction		35017880	107725599	0.00	142743479	0.00	0.00	0.00	0.00	0.00	142743479	35017880
b) Project Management Expenses		10353196	0.00	0.00	10353196	0.00	0.00	0.00	0.00	0.00	10353196	10353196
TOTAL - C		45371076	107725599	0.00	153096675	0.00	0.00	0.00	0.00	0.00	153096675	45371076
TOTAL CWIP (A+B+C+D)		539392286	704786191	156870118	1087308359	0	0	0	0	0	1087308359	539392286
GRAND TOTAL		5413402223	1336510171	176173827	6573738568	1047469469	182031681	52497551	1461000	1289537701	5293200867	4365932755
PREVIOUS YEAR GRAND TOTAL		5217549670	344970167	149117613	5413402223	843709697	153928607	49831165	-	1047469469	4365932755	4373839973
RM ASSISTANT REGISTRAR (ACCOUNTS) Pradip REGISTRAR Pradip DIRECTOR Pradip PRESIDENT (BOG)												

Signed on: 20 JUL 2023

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)			
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS			
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH' 2023			
SCHEDULE - 7- INVESTMENTS - EARMARKED/ ENDOWMENT FUND	AMOUNT(₹)		PREVIOUS YEAR
	CURRENT YEAR	PREVIOUS YEAR	
1. In Government Securities	-	-	-
2. Other Approved Securities	-	-	-
3. Shares	-	-	-
4. Debentures and Bonds	-	-	-
5. Subsidiaries and Joint Ventures	-	-	-
6. Other Fixed Deposit	24,00,000.00	-	24,00,000.00
TOTAL	24,00,000.00	24,00,000.00	24,00,000.00

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)			
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS			
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH' 2023			
SCHEDULE - 8- INVESTMENTS - OTHERS	AMOUNT(₹)		PREVIOUS YEAR
	CURRENT YEAR	PREVIOUS YEAR	
1. In Government Securities (RBI Bonds - Not marketable)	-	-	-
2. Other Approved Securities	-	-	-
3. Shares	-	-	-
4. Debentures and Bonds	-	-	-
5. Subsidiaries and Joint Ventures	-	-	-
6. Others	29,03,512.00	42,54,571.00	-
Gratuity fund With LIC- AEI, Sivasagar	3,02,49,506.00	2,10,43,412.00	-
Gratuity fund With LIC- RGIPT, Jais	13,26,382.00	12,92,645.00	-
Gratuity fund With LIC- EIB	21,65,583.00	21,00,104.00	-
Leave Incashment Fund With LIC- AEI, Sivasagar	10,33,889.00	11,76,817.00	-
Leave Incashment Fund With LIC- EIB	5,07,40,206.00	3,08,45,760.00	-
Leave Incashment Fund With LIC- RGIPT, Jais	8,84,19,078.00	6,07,13,309.00	-
TOTAL	8,84,19,078.00	6,07,13,309.00	6,07,13,309.00
ASSISTANT REGISTRAR (ACCOUNTS)	REGISTRAR	DIRECTOR	PRESIDENT (BOG)

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)			
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS			
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH' 2023			
SCHEDULE - 9 - CURRENT ASSETS, LOANS & ADVANCES	AMOUNT(₹)		
	CURRENT YEAR	PREVIOUS YEAR	
A. CURRENT ASSETS :			
1. Inventories			
a) Stores and Spares (Stationery Items)	3,75,273.00	3,63,673.00	
b) Stock of Lab Consumables	2,07,406.00	1,48,073.00	
c) Stock of Civil and Electrical Materials	15,13,583.00	26,58,468.00	
d) Stock of Computer/ IT Consumables	16,500.00	31,676.00	
e) Stock of Diesel	5,19,775.00	3,99,362.00	
f) Stock of Office Consumables	-	29,671.00	36,30,923.00
2. Sundry Debtors			
a) Debts Outstanding for a period exceeding six months	2,89,100.00	2,89,100.00	
b) PRS recoverable from NCCL-Outstanding for a period exceeding Six Months	-	15,30,87,877.00	
c) Other Debts (Receivable against Workshop/ Training Programme)	1,24,53,120.37	2,10,91,357.99	17,44,68,334.99
3. Cash Balances in Hand (including Cheques/Drafts & imprest)			
a) With Scheduled Bank :			
on Current Accounts	5,74,68,745.53	35,12,467.02	
on Deposit Accounts	8,35,93,01,464.00	6,84,99,53,022.00	
on Savings Accounts	1,12,25,18,792.32	4,06,44,81,443.78	10,91,79,46,932.80
b) With Non - Scheduled Bank :			
	-	6,040.00	
TOTAL (A)		9,55,46,69,799.22	11,09,60,46,190.79
			Contd ...
ASSISTANT REGISTRAR (ACCOUNTS)	REGISTRAR	DIRECTOR	PRESIDENT (BOG)

Signed on: 20 JUL 2023

Page: 33 of 58

Contd

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)			
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS			
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH' 2023			
		AMOUNT(₹)	
SCHEDULE - 9 -CURRENT ASSETS, LOANS & ADVANCES	CURRENT YEAR	PREVIOUS YEAR	
B. LOANS , ADVANCES AND OTHER ASSETS :			
1. Advances:			
a) Staff- Advance for Activities			
b) Advances to Staff	2,53,001.00	4,05,396.00	4,05,396.00
2. Advances and other amounts recoverable in cash or in kind or for value to be received:			
a) On Capital Account	60,59,87,421.00	39,11,91,329.00	
b) Pre-payments	46,21,495.02	49,91,937.00	
c) Security Deposits Paid	49,11,882.00	49,07,083.00	
d) Others	7,50,35,431.47	8,60,85,425.45	48,71,75,774.45
3. Income Accrued:			
a) On Investments from Earmarked/Endowment Funds			
b) On Investments-Others	10,21,70,183.00	9,85,89,675.00	
c) On Loans and Advances			
d) Others - Student Fees Due	2,84,77,986.28	2,40,87,692.00	12,26,77,367.00
4. Claims Receivable:			
TOTAL (B)	82,14,57,399.77		61,02,58,537.45
TOTAL (A+B)	10,37,61,27,198.99		11,70,63,04,728.24
ASSISTANT REGISTRAR (ACCOUNTS)	REGISTRAR	DIRECTOR	PRESIDENT (BOG)

Signed on 20 JUL 2023

Page: 34 of 58

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS) NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31ST MARCH' 2023 AMOUNT (₹)			
SCHEDULE - 10 - FEES/ SUBSCRIPTIONS		CURRENT YEAR	PREVIOUS YEAR
1. Entrance Fees		17,58,054.00	11,56,674.00
2. Annual Fees/ Subscription		20,89,86,925.85	16,37,68,343.26
TOTAL		21,07,44,979.85	16,49,25,017.26
ASSISTANT REGISTRAR (ACCOUNTS) REGISTRAR DIRECTOR PRESIDENT (BOG)			



Signed on: 20 JUL 2023

Page: 35 of 58

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)			
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS			
SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31ST MARCH 2023			
		AMOUNT (₹)	
SCHEDULE - 11 - INTEREST EARNED		CURRENT YEAR	PREVIOUS YEAR
1) On Term Deposits:			
a) With Scheduled Banks		40,88,37,453.00	37,20,15,528.00
b) With Non-Scheduled Banks		0.00	0.00
c) With Institutions (Govt. of India Bond)		0.00	0.00
d) Others		2,83,608.00	2,83,608.00
2) On Savings Accounts:			
a) With Scheduled Banks		5,63,38,625.00	2,77,81,059.49
b) With Scheduled Banks in Sweep A/c		1,26,98,700.00	2,32,51,120.00
c) With Non-Scheduled Banks		0.00	0.00
d) With Institutions		0.00	0.00
e) Others		0.00	0.00
		6,90,37,325.00	5,10,32,179.49
Less : Transfer to Capital Fund		47,81,58,386.00	42,33,31,315.49
a) Capital Fund RGPT, Jais		1,36,84,962.00	1,77,04,829.00
b) Capital Fund AEL Sivasagar		5,12,31,126.00	1,44,68,876.00
c) Capital Fund (Grant OIBB)		0.00	30,60,670.00
d) Capital Fund EIB, Bangalore		5,24,23,192.00	0.00
e) Depreciation Fund		0.00	0.00
f) Interest on Bank Guarantee Invoked- NCCL		0.00	76,07,099.00
g) Earmarked Fund - Chevron Scholarship Grant		1,34,055.00	1,43,998.00
h) Deferred Credit Liabilities - DST Grants		27,47,572.00	7,35,266.00
		12,02,20,907.00	4,37,20,738.00
3) On Loans:		35,79,37,479.00	37,96,10,577.49
a) Employees/ Staff		0.00	0.00
b) Others- Interest on IT Refund		3,76,038.00	0.00
4) Interest on Debtors and Other Receivables		0.00	0.00
		35,83,13,517.00	37,96,10,577.49
TOTAL			
ASSISTANT REGISTRAR (ACCOUNTS)	Ph	DIRECTOR	PRESIDENT (BOG)
REGISTRAR	spndry		

Signed on: 20 JUL 2023

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)			
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS			
SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31ST MARCH' 2023			
AMOUNT (₹)			
SCHEDULE - 12 - OTHER INCOME	CURRENT YEAR	PREVIOUS YEAR	
1. Profit on Sale/Disposal of Assets:			
a) Owned Assets	0.00	0.00	0.00
b) Assets acquired out of grants or received free of cost	0.00	0.00	0.00
2. Export Incentives realised			
3. Fees for Miscellaneous Services:			
<u>Recovery of Transport/ Vehicles running charges</u>			
Income From Vehicles			
Recovery of Transport Charges - Academic	6,22,850.00		
Recovery of Transport Charges - Non-Academic	2,57,388.00		
<u>Recovery of Electricity charges RGIPT Jais</u>	2,48,267.00	11,28,505.00	
Recovery of Electricity Charges- Ph.D. Students	35,974.71		
Recovery of Electricity Charges- Faculty	11,34,873.46		
Recovery of Electricity Charges- Non-Faculty	6,73,831.69		
Recovery of Electricity Charges- Bank of Baroda	84,564.70		
Recovery of Electricity Charges- Washermen	2,000.00		
Recovery of Electricity Charges- Post Office	4,023.00		
Recovery of Electricity Charges- M/s S.R. Enterprises	6,711.00		
Recovery of Electricity Charges- M/s Jaiswal Canteen	6,62,473.00	26,04,451.56	
<u>Recovery of Medical Contribution</u>			
Recovery of Medical Contribution (Faculty- RGIPT, Jais)	3,04,155.00		
Recovery of Medical Contribution (Staff- RGIPT, Jais)	1,18,476.00		
Recovery of Medical Contribution Faculty (AEI, Sivasagar)	87,750.00		
Recovery of Medical Contribution (Staff- AEI, Sivasagar)	19,845.00		
Recovery of Medical Contribution (EIB)	24,960.00	5,55,186.00	
			Contd ...
ASSISTANT REGISTRAR (ACCOUNTS)	REGISTRAR	DIRECTOR	PRESIDENT (BOG)

Signed on: 20 JUL 2023

Contd.

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)			
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS			
SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31ST MARCH 2023			
SCHEDULE - 12 - OTHER INCOME	CURRENT YEAR	PREVIOUS YEAR	AMOUNT (₹)
Recovery of License Fee/Rent			
Recovery of License Fee (Faculty- RGIP, Jais)	13,50,122.00		
Recovery of License Fee (Staff- RGIP, Jais)	6,71,926.00		
Recovery of License Fee- Ph.D Students	1,56,190.00		
Recovery of License Fee- M/s S.R. Enterprises	14,970.00		
Recovery of License Fee- M/s Jaiswal Canteen	1,35,867.00		
Recovery of Hostel Rent	25,300.00		
Rent from Bank of Baroda, Jais Campus Branch	45,240.00	23,99,615.00	
		44,72,784.86	44,72,784.86
4. Miscellaneous Income			
Excess Provision for ITI Rent written Back	10,86,867.00		
Excess Provision for Equipment written Back	86,306.22		
Excess Provision for CAG Fees written Back	1,50,000.00		
Excess Provision for Arbitration fees written Back	15,25,000.00		
Excess Provision for PMC Fees written Back	88,24,239.00		
Excess Provision for Communication Networking Written Back	57,72,070.73		
Guest House Income	22,96,071.00		
Admission Processing Fee	31,53,100.00		
Fees from Commercial Training	34,42,095.00		
Convocation Fees- AEI, Sivasagar	6,000.00		
Convocation Fees- RGIP, Jais	1,75,500.00		
ASSISTANT REGISTRAR (ACCOUNTS)	REGISTRAR	DIRECTOR	PRESIDENT (BOG)

Contd. ...

Signed on: 20 JUL 2023

Page: 38 of 58

Page: 39 of 58

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)		
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS		
SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31ST MARCH' 2023		
	AMOUNT (₹)	
SCHEDULE - 13 - ACADEMIC EXPENSES	CURRENT YEAR	PREVIOUS YEAR
Honorarium to Visiting Faculties	10,80,000.00	12,23,999.00
Book Grant, e-Journal Charges, Magazines & Academic Softwares	87,71,252.00	88,64,356.37
Convocation, Conference & Meeting Expenses	28,30,955.00	11,68,199.00
IIT-JEE Fees	14,16,000.00	14,16,000.00
Student Welfare	12,37,413.00	2,34,800.00
Hostel Rent & Mess Expenses	1,09,09,331.00	1,59,49,440.00
Scholarship & Stipend	4,80,78,504.00	3,85,90,857.00
Workshop & Training	27,83,840.00	13,54,736.00
Cultural & Sports Activities	3,38,816.00	89,737.00
Rent & Electricity Charges	87,97,661.00	64,52,730.00
Repairs & Maintenance (Equipment)	53,55,297.00	30,30,709.00
Vehicle Running Expenses	28,23,192.00	13,74,234.00
Lab Charges and Printing & Stationery	25,77,920.45	18,44,156.10
Travelling & Conveyance Expenses (Academic)	22,09,327.00	3,20,381.00
Student Contingency/ Admission/ Orientation Expenses	16,46,960.00	7,36,831.00
Cumulative Professional Development Allowance	29,37,971.00	11,30,024.00
Placement Exp.	1,37,647.00	-
Convocation Expenses Assam	6,62,392.00	8,96,659.00
Academic Software Charges- Bangalore	-	1,83,750.00
Bus Hire Charges -Assam	8,07,749.40	2,51,252.00
Seed Grant	20,96,853.00	12,15,413.08
Generator Running Exp -Assam	-	2,39,937.80
Lab Consumables - Bangalore	66,436.00	2,79,736.00
Mess Charges- Assam	32,63,645.00	13,60,162.00
Refill- NMIT Campus	4,79,400.00	15,10,400.00
Student Fest	19,627.00	27,351.00
SCTE Fee- AEI, Sivasagar	80,000.00	-
In-house Project Fund	0.00	2,28,579.00
TOTAL	11,14,08,188.85	8,99,74,429.35
ASSISTANT REGISTRAR (ACCOUNTS)	REGISTRAR	PRESIDENT (BOG)

Signed on: 20 JUL 2023

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)			
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS			
SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31ST MARCH' 2023			
AMOUNT (₹)			
SCHEDULE - 14 - ESTABLISHMENT EXPENSES	CURRENT YEAR	PREVIOUS YEAR	
a) Salaries & Allowances	21,52,92,553.00	17,34,01,158.00	
b) Manpower Hiring	5,02,67,350.00	4,14,73,380.00	
c) Contribution to Provident Fund, NPS & Others	2,67,60,796.00	2,16,20,139.00	
d) Contribution to Other Fund	-	-	
e) Provision on Employees Retirement and Terminal Benefits (Gratuity & Leave Encashment)	1,64,43,530.00	2,14,07,225.00	
f) Others			
Honorarium/ Compensation	19,11,564.00	11,96,236.00	
Medical Reimbursement	29,85,138.00	31,51,351.00	
Newspaper/ Mobile Expenses Reimbursement	4,55,216.00	3,12,614.00	
Staff Welfare Expenses	8,01,000.00	1,76,525.00	
Relocation Expenses	4,15,517.00	5,97,044.00	
TOTAL	31,53,32,664.00	26,33,35,672.00	
ASSISTANT REGISTRAR (ACCOUNTS)	REGISTRAR	DIRECTOR	PRESIDENT (BOG)

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS) NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31ST MARCH 2023 AMOUNT (₹)			
SCHEDULE - 15 - OTHER ADMINISTRATIVE EXPENSES	CURRENT YEAR	PREVIOUS YEAR	
Electricity and Power	3,06,38,287.00	2,69,35,727.00	
Repairs & Maintenance (Building & Other)	45,54,111.00	63,67,518.63	
Insurance	3,82,339.00	2,98,418.00	
Repairs and Maintenance (House Keeping & Office Expenses)	1,35,37,172.00	1,24,62,696.11	
Security Service Charges	1,41,24,329.00	1,34,04,378.00	
Rent, Rates and Taxes	29,500.00	22,10,523.00	
Vehicles Running and Maintenance	22,10,138.00	19,46,442.14	
Postage, Telephone and Communication Charges	9,22,150.00	9,08,517.00	
Printing, Stationary and Publication	17,46,133.00	10,64,624.58	
Travelling and Conveyance Expenses	33,03,359.00	26,27,582.00	
Recruitment Expenses	10,274.00	2,43,851.00	
Legal & Arbitration Expenses	14,25,679.00	21,17,051.00	
Interest on Late Payment & Penalties	24,526.00	1,712.00	
Conference & Meetings Expenses	10,77,654.00	1,24,440.00	
Professional & Consultancy Charges	22,95,651.00	3,92,284.00	
Advertisement and Publicity	63,09,755.00	35,52,633.00	
Guest House Expenses	20,32,253.00	15,88,009.00	
Bank Charges	1,66,235.25	2,22,625.47	
Website Expenses	2,08,860.00	12,576.00	
CAG Audit Fees	5,50,000.00	3,68,660.00	
Doctor Fees	21,46,200.00	17,60,733.00	
Recruitment & Promotion Policies Expenses	0.00	1,04,862.00	
Contd			
ASSISTANT REGISTRAR (ACCOUNTS)	DIRECTOR	PRESIDENT (BOG)	

Signed on 20 JUL 2023

Contd.

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)		
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS		
SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31ST MARCH 2023		
	AMOUNT (₹)	
SCHEDULE - 15 - OTHER ADMINISTRATIVE EXPENSES	CURRENT YEAR	PREVIOUS YEAR
Administrative Expenses- AEI	-	50,00,000.00
Administrative Expenses- EIB	-	50,00,000.00
Field & Industrial Visit	-	59,788.00
Honorarium- EIB	4,00,000.00	20,000.00
Miscellaneous Office Expenses	8,46,879.00	10,20,130.75
PAT Counselling Expenses	-	1,00,000.00
Rent EIB (Office)	11,25,000.00	5,04,364.00
Software Renewal & License Fee	1,32,281.00	4,32,507.00
Sundry Balance Written-off	220.00	60.00
Hindi Rajbhasha Parliamentary Meeting/ Hindi Workshop Expenses	-	4,91,918.00
Medicine Expenses (Dispensary)	5,14,332.00	-
TOTAL	9,07,13,317.25	9,13,44,630.68
ASSISTANT REGISTRAR (ACCOUNTS)	REGISTRAR	PRESIDENT (BOG)
<i>Rh</i>	<i>Spndr</i>	<i>Sh</i>



Signed on: 20 JUL 2023

Page: 43 of 58

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS) NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31ST MARCH' 2023				AMOUNT (₹)	
SCHEDULE - 16 - PRIOR PERIOD ADJUSTMENT		CURRENT YEAR		PREVIOUS YEAR	
INCOME					
Rent & Electricity		25,673.00		1,12,622.89	
TDS Written Back		90,372.00		6,92,078.00	
Lab Equipments - RGIPT, Jais		-		1,82,658.58	
Interest Income on FDRs		9,16,541.00		-	
Security Deposits		1,42,596.00		-	
Capital Fund Adjustment (Depreciation- RGIPT, Jais)		4,95,18,656.29			
Capital Fund Adjustment (Depreciation- AEI, Sivasagar)		2,52,412.60			
Capital Fund Adjustment (Depreciation- EIB)		60,095.80			
Manpower Hire Charges- EIB		8,29,393.00			
Liabilities for Unpaid Bills		50,105.00		2,53,195.27	
Capital Fund Adjustment (Depreciation- RGIPT, Jais)- Building		4,80,96,796.71			
Capital Fund Adjustment- Building AEI		44,00,754.00			
Others		21,248.20	10,44,04,643.60		12,40,554.74
EXPENDITURE					
Travelling/ LTC Expenses		-		76,846.00	
Fee & Subscriptions		4,36,600.00		1,20,000.00	
Interest Accrued		1,02,000.00		42,18,131.00	
Liquidated Damages		-		1,99,258.00	
Security Deposit		-		19,705.00	
Mess Fees		3,02,300.00		0.00	
Investment in SWEEP		-		76,50,257.11	
Lab Consumables		1,54,350.00		0.00	
Hostel Rent		1,65,000.00		0.00	
NPS Contribution		5,08,183.00		0.00	
Provision for Depreciation- Building RGIPT, Jais		4,80,96,796.71		4,98,31,164.69	
Provision for Depreciation- Building AEI, Sivasagar		44,00,754.00		0.00	
Imprest- RGIPT, Jais		-		8,882.00	
Others		2,00,436.69	5,43,66,420.40	3,05,211.00	6,24,29,454.80
NET PRIOR PERIOD EXPENDITURE			5,00,38,223.20		(6,11,88,900.06)
ASSISTANT REGISTRAR (ACCOUNTS)		DIRECTOR		PRESIDENT (BOG)	
REGISTRAR					

Signed on: 0 JUL 2023

SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH 2023

SCHEDULE '17'-SIGNIFICANT ACCOUNTING POLICIES

1. Accounting Convention

The financial statements are prepared under dual entry system under the historic cost convention and on-going concern concept, following the accrual method of accounting unless otherwise stated herein.

2. Inventory Valuation

Stores materials including stationery held at year end are valued at cost adopting FIFO method.

3. Fixed Assets

3.1 Fixed assets are stated at the cost of acquisition less accumulated depreciation thereon and impairment loss, if any. The cost includes inward freight, duties and taxes, installation charges and other directly attributable expenses related to their acquisition.

3.2 Assets created out of research grants normally remain as property of the sponsoring authority in terms of sanction letters.

3.3 Land includes acquisition cost, registration and other expenses and is capitalized on taking possession. Interim payments made on demand to Government Authorities for the purpose of acquisition of land are treated as Capital Advance, grouped under Capital Work in Progress.

3.4 Capital Work-In-Progress: Expenses incurred towards building under construction / civil work in progress / equipment received but not installed/ capital advances against construction materials/ running bills payments during project construction stage towards contracts, consultancy services and project management / administrative expenses are grouped under Capital Work-In-Progress. Interest earned if any, on mobilization advance to contractor are adjusted from Capital Work-in-Progress.

3.5 The assets which are unserviceable, condemned or out of use are written off only after approval by the Competent Authority of the Institute.



Signature

ASSISTANT REGISTRAR (ACCOUNTS)

Signature

REGISTRAR

Signature

DIRECTOR

Signature
PRESIDENT-BOG

Signed on: 20 JUL 2023

Page: 45 of 58

SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31st MARCH 2023
SCHEDULE '17'-SIGNIFICANT ACCOUNTING POLICIES

4. Method of Depreciation on Fixed Assets

- 4.1 Depreciation on fixed assets is provided on Straight Line Method (SLM) on pro-rata basis at the rates arrived at based on the estimated useful life of the assets. In respect of assets fully depreciated and are in use, a residual value of Rs. 1.00 is retained in the books till it is discarded.
- 4.2 Each Fixed asset costing Rs. 5000/- and below is fully depreciated in the year of acquisition.
- 4.3 On the recommendation of Finance Committee, BoG in 68th meeting resolved to revise the useful life and rate of depreciation of fixed assets (Tangible and Intangible) with effect from Financial Year 2021-22. The approved useful life of asset and rates of depreciation are as follows:

I. Useful Life and Rate of Depreciation on Fixed (Tangible) Assets

SL No.	Tangible Assets	Useful Life (In years)	Rate of Depreciation (In %)
1	Land	-	0
2	Site Development	-	0
3	Buildings	50.00	2.00
4	Roads & Bridges	50.00	2.00
5	Tube wells & Water Supply	50.00	2.00
6	Sewerage & Drainage	50.00	2.00
7	Electrical Installation and Equipment	20.00	5.00
8	Plant & Machinery	20.00	5.00
9	Scientific & Laboratory Equipment	12.50	8.00
10	Office Equipment	13.33	7.50
11	Audio-Visual Equipment	13.33	7.50
12	Computers & Peripherals	05.00	20.00
13	Furniture, Fixtures & Fittings	13.33	7.50
14	Vehicles	10.00	10.00
15	Library Books & Scientific Journals	10.00	10.00

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ASSISTANT REGISTRAR (ACCOUNTS)

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REGISTRAR

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DIRECTOR

Arnd

PRESIDENT-BOG

Signed on: 20 JUL 2023



SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH 2023
SCHEDULE '17'-SIGNIFICANT ACCOUNTING POLICIES

II. Amortization Period and Amortization Rate on Intangible Assets

Sl. No.	Intangible Assets	Amortization Period (In years)	Amortization Rate
1	E-Journals	02.50	40.00
2	Computer Software	02.50	40.00
3	Patents and Copyrights	09.00	11.11

5. Merging of Contingent Fund with Institute's Reserve Fund

A Depreciation Fund was initially created by transferring equivalent amount of depreciation subject to excess of income over expenditure from Income & Expenditure Account, to facilitate suitable funding for the replacement of assets. BoG in its 62nd meeting resolved to rename the Depreciation Fund as Contingent Fund. The Board of Governors (BoG) further deliberated on the matter in its 68th meeting and resolved the following:

- The fund shall be called **RESERVE FUND** of the Institute. General Reserve shall be known as Reserve Fund.
- The amount of Contingent Fund being merged with Reserve Fund shall be utilized only for capital works of the Institute.
- The Reserve Fund shall be used for capital works, however, in case of administrative exigencies, reserve fund may be utilized for recurring expenses with the approval of BoG.
- The excess of income over expenditure of each financial year shall be transferred to **RESERVE FUND** of the Institute.

6. Miscellaneous Expenditure

6.1 All expenses relating to renovation of rented premises including playgrounds/ courts are accounted in Income & Expenditure Account in the year of incurrence.

6.2 Deferred revenue expenditure on account of RGIPB Brand or intangible (E-Journals, Computer Software and Patent & Copyrights) assets shall be written off as per Amortization Policy of Institute.



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ASSISTANT REGISTRAR (ACCOUNTS)

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REGISTRAR

M. e

DIRECTOR

[Signature]
PRESIDENT-BOG

Signed on: 20 JUL 2023

Page: 47 of 58

SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31st MARCH 2023
SCHEDULE '17'-SIGNIFICANT ACCOUNTING POLICIES

7. Accounting Policy on Lease as per Accounting Standard-19

On the recommendation of Finance Committee, BoG in its 68th meeting considered the Accounting Policy on Lease as per Accounting Standard-19 to implement it with effect from Financial Year 2021-22. The approved policy is as follows:

Operating Leases (As per Para-23 of Accounting Standard- 19)

Para-23 of AS-19: The Lease payment under an operating lease shall be recognized as an expense in the statement of Income & Expenditure on a Straight-Line Basis.

Para-24 of AS-19: For operating lease, lease payments (excluding costs for services such as insurance and maintenance) shall be recognized as an expense in the statement of Income & Expenditure on a Straight-Line Basis.

Para-25 of AS-19: The lease shall be disclosed as under:

(a) Future minimum lease payments for the Operating Lease for the following periods:

- (i) not later than one year,
- (ii) later than one year and not later than five years,
- (iii) later than five years.

8. Capital Fund Grant

8.1 Budgetary Support from Government of India and Grant from OADB / Promoting entities for campus project work are accounted on receipt basis and grouped under "Capital Fund." Interest earned if any, from bank on capital fund account/ investment is accounted in Capital Fund account.

8.2 Depreciation charged on assets created out of Capital fund are treated as Deferred Income and transferred to Income and Expenditure Account every year on systematic basis over useful life of the assets.

8.3 The fund utilised for creating non-depreciable assets like land is treated as Capital Reserve.



ASSISTANT REGISTRAR (ACCOUNTS)	REGISTRAR	DIRECTOR	PRESIDENT-BOG

Signed on: 20 JUL 2023

Page: 48 of 58

SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31st MARCH 2023 SCHEDULE '17'-SIGNIFICANT ACCOUNTING POLICIES	
9. <u>Corpus fund</u> 9.1 Corpus Fund received is accounted on receipt basis and is grouped under Corpus Fund. Interest earned from investment of Corpus Fund in Fixed Deposit Receipts (FDRs) with banks are utilised for meeting the recurring expenses. 9.2 Interest earned from investment of Corpus Fund is accounted in Income & Expenditure Account and the surplus interest after meeting the recurring expenses, as lying invested in Fixed Deposits Receipts (FDRs) with Banks/Non-tradable Government Securities.	
10. <u>Foreign Currency Transactions</u> 10.1 Transactions denominated in foreign currency are accounted at the exchange rate prevailing as at the date of such transactions.	
11. <u>Provisions, Prepaid</u> 11.1 All known liabilities and other financial obligation exceeding Rs.10,000/- up to the date of finalization of accounts are accounted for. 11.2 Pre-paid charges/expenses exceeding Rs. 10,000/- incurred during the year are carried to next year and are duly considered in relevant future period.	
12. <u>Investments</u> 12.1 Investments are held in the form of Fixed Deposits (FDs) with Scheduled Banks or in non-tradable Government Securities. 12.2 No Investments are made by the Institute in the tradable securities. 12.3 Investments are valued at cost.	
13. <u>Revenue Recognition</u> 13.1 Interest earned on Fixed Deposits with Banks, income from Government Securities, Students' Fees including entrance fees and other receipts are accounted for as and when due on accrual basis and are recognised as income of the Institute. Sale of discarded assets/items etc. is accounted for on receipt basis.	
ASSISTANT REGISTRAR (ACCOUNTS) <i>ah</i>	DIRECTOR <i>h</i>
REGISTRAR <i>dh</i>	PRESIDENT-BOG <i>dh</i>

SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH 2023 SCHEDULE '17'-SIGNIFICANT ACCOUNTING POLICIES		
14. Retirement Benefits 14.1 Liability of retirement benefits i.e. Gratuity and Leave Encashment are provided for on the basis of actuarial valuation. 14.2 Provisions for Gratuity and Leave Encashment are being made in books and capitalized value of Gratuity and Leave Encashment being received from previous employers of the Institute's employees, who have been absorbed in the Institution, is credited to the Provision Accounts. 14.3 Equivalent amount of provisions being made is transferred to respective Gratuity and Leave Encashment Funds of RGIFT, Jais, Amethi, Assam Energy Institute (AEI), Sivasagar and Energy Institute, Bengaluru (EIB). 14.4 Investment made against these provisions are being shown as a part of "Investment Others" in a separate Schedule. 14.5 The actual payments of Gratuity and Leave Encashment are debited in the accounts to the respective provisions. 14.6 The Board of Governors (BoG) in its 66th meeting resolved on the recommendation of Finance Committee for the investment of 'Leave Encashment' and 'Gratuity Funds' in LIC's New Group Leave Encashment Plan and 'LIC's New Group Gratuity Cash Accumulation Plan' respectively for the employees of RGIFT, Jais, Amethi, Assam Energy Institute (AEI), Sivasagar and Energy Institute, Bengaluru (EIB).	15. Income Tax 15.1 The Institute income is exempted from Income Tax under the provisions of Section 10(23C) (iii) (ab) of the Income Tax Act, 1961, hence, no provision is made for Income Tax.	ASSISTANT REGISTRAR (ACCOUNTS) REGISTRAR DIRECTOR PRESIDENT-BOG

Signed on 20 JUL 2023

Page: 50 of 58

SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31st MARCH 2023 SCHEDULE '17'-SIGNIFICANT ACCOUNTING POLICIES	
16. Policy for Grant of Research Grant/ Seed Grant to Faculty Members The BoG in its 71st meeting passed the policy to grant Research Grant/ Seed Grant to Faculty Members of the Institute and its centres. The highlight of the policy is as under: Preamble: To provide financial support to young faculty members to carry out research works and establish research laboratory, which may further lead to fetch the extramural projects from industries and funding agencies. Research Grant: Providing assistance to outstanding collaborative research proposals received from faculty of Institute and centres with a objective to attract external fundings. Seed Grant: Providing one-time research financial support to the newly appointed faculty in the cadre of Assistant Professor of Institute and its centres. Funding: Interested faculty will be required to submit the research proposals to the office of Dean- R&D to get support under Seed Grant/Research Grant scheme. The projects shall be approved based on the recommendation of the Evaluation Committee. The fund shall be sanctioned from the "Recurring Grant" of the Institute for various project activities. The financial support under the Seed Grant scheme shall be generally up to Rs. 10.00 Lakhs and it may be extended further depending on the genuine need of the proposal/ recommendation of the committee. In the case of the Research Grant Scheme, as such there shall not be any financial limit, however, funding for the project shall be sanctioned on the recommendation of Internal Project Evaluation Committee. Approving Authority: The Director, RGIPT shall be approving authority for financial support under both the schemes. General Guidelines: The guidelines followed in the external funded projects shall be applicable in all the projects sanctioned under the Research Grant/ Seed Grant schemes. Institutes' procurement rules shall be followed in the purchases of non-consumable and consumable items. A list of all non-consumable items procured out of Project Funds shall be handed over to the respective department after the closure of the project.	<i>ah</i> ASSISTANT REGISTRAR (ACCOUNTS) <i>opendra</i> REGISTRAR <i>me</i> DIRECTOR <i>[Signature]</i> PRESIDENT-BOG

Page: 51 of 58

Signed on: 20 JUL 2023

SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH 2023 SCHEDULE '18'-NOTES ON ACCOUNTS			
The Notes forming part of the Accounts giving inter-alia certain additional disclosures in respect of significant accounting transactions during the year and also highlighting the Institute's contingent liability and capital commitment as of 31st March 2023 are as follows:			
1. The Receipt and Payment Account carries the amounts of actual receipts and actual payments of the Institute during the year 2022-23. However, the recoveries under the various heads have been grossed up, e.g. salaries expenses have been grossed up on account of NPS, Income Tax Deductions, etc.			
2. The Income & Expenditure Account and the Balance Sheet have been drawn from Receipt and Payment Account duly accounted for liabilities, prepaid expenses, advance payments and provisions as at the end of the accounting year.			
3. The financial statements have been presented as per Uniform Format prescribed for non-profit Central Autonomous Bodies.			
4. Previous year figures have been regrouped/rearranged in order to make them comparable with the current year figures.			
5. While finalizing the Accounts for the year, necessary action has been taken, wherever applicable, to implement the recommendations of Government Audit on accounts of previous year.			
6. In line with the recommended policy for non-profit organization in respect of accounting of Gross Budgetary Support (GBS) and Grants, the Institute has adopted the following significant accounting policy:			
Budgetary Support received from Government of India and Grants received from OIIB/ promoting entities and Capital Fund (Own Contribution) for campus development are grouped under "Capital Fund" in Schedule-1 along with the interest and other amount earned if any. Amounts grouped under Corpus Fund in Schedule-1 represent contribution received from Oil PSUs for meeting the recurring expenses from its interest and the transfer of excess of income over expenditure to the extent of surplus interest lying invested in Fixed Deposit Receipts/ non-tradable Government Securities from the Income & Expenditure Account.			
ASSISTANT REGISTRAR (ACCOUNTS)		REGISTRAR	DIRECTOR
PRESIDENT-BOG			

Signed on: 0 JUL 2023

Page: 52 of 58

SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH 2023
SCHEDULE '18'-NOTES ON ACCOUNTS

- A Corpus Fund of Rs. 0.70 crore received from Oil India Ltd. during Financial Year 2022-23 for Assam Energy Institute (AEI), Sivasagar.
 - A Capital Fund of Rs. 3.83 crore received from Oil India Ltd. during Financial Year 2022-23 for Assam Energy Institute (AEI), Sivasagar 2022-23.
 - The BoG in its 70th meeting resolved to transfer an amount of Rs. 20.00 crore from Institute's Reserve Fund to Capital Fund (Own contribution) during FY 2022-23 for the settlement of payment to M/s NCCL.
 - Depreciation on assets created out of capital fund is treated as Deferred Revenue Income and recognized in the Income and Expenditure Account every year on systematic basis over the 'useful life' of the assets. Accordingly, Rs.18,20,31,681/- being the depreciation charged during the year has been transferred to Deferred Revenue Income.
 - As per the recommendation of Audit, cost of unfinished buildings of Rs. 68,29,66,517/-, which includes RGIPT and its Assam Energy Institute (AEI), Sivasagar and Energy Institute, Bengaluru (EIB) centres as capital-works-in-progress in the year 2022-23.
7. The provisions of Payment of Gratuity Act are applicable to the Institute. Accordingly, based on Actuarial Valuation, accumulated provision for Rs. 8,84,19,078/- has been made in the accounts towards retirement benefit for (a) Gratuity and (b) Leave Encashment, which is reflected in accounts at **Schedule-5** under 'Current Liabilities and Provisions' as of 31-03-2023.
8. During the year, excess of income over expenditure to the extent of the surplus interest lying invested in fixed deposit with banks amounting to total of Rs. 13,78,92,599.42/- have been transferred to the Institute's Reserve Fund, which has been reflected under Reserve and Surplus in **Schedule-2**.



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Signed on: 20 JUL 2023

Page: 53 of 58

SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH 2023
SCHEDULE '18'-NOTES ON ACCOUNTS

9. As per the EFC Sanction Ref. F.No. 42024/6/2012-Gen.(Vol. II) dated 16.03.2015 with regard to Revised Cost Estimate for Jais Project taken by Department of Expenditure (Ministry of Finance), it is decided that RGIPT will confine its Jais Campus project in 47.00 acres of land only, as the acquisition of additional land by UPSIDC did not materialize. Consequently to this, the institute had applied to UPSIDC in 2015-16 for refund of advance payment of Rs. 185.00 Lakh made during previous years as per their demand, for acquisition of land. Out of the above, Rs. 143.00 Lakh was realised during the year and the balance of Rs. 41.80 Lakh is grouped under Loans & Advances on capital account. According to UPSIDC, Rs. 41.80 Lakh is not payable since the amount is deducted against their standard deduction policy for land acquisition. RGIPT is following up with UPSIDC for refund on the grounds that the acquisition of land did not take place, hence, there is no deduction applicable. Meanwhile, provision for doubtful debt of Rs. 41.80 Lakh has been made in books from 2017-18 which is reflecting under Schedule-5(B), on the recommendation of Audit.

10. The contract for civil & structural work awarded in June 2010 to M/s Punj Lloyd Ltd for an estimated contract value of Rs. 179,89,04,329/- had been terminated in view of the contractor's failure to perform as per the agreed schedule. Prior to termination, contractor raised certain claims not payable under the contract and on Institute's refusal to pay the claimed amount, the contractor invoked arbitration which is currently on-going. Current Liabilities and Provisions includes Rs. 3,27,27,202/-, the unpaid balance amount against the value of work done by the contractor, (which is adjustable against the Institute's claim pending for adjudication under arbitration).

11. MoPNG in its meeting held on 14.02.2014 proposed to set up a centre of RGIPT in the area of Fire Engineering, Safety and Energy Research at Bangaluru. The foundation stone for this centre was laid at Kambalipura Village in Rural Bangaluru District, Karnataka by then Minister PNG on 05.03.2014. Meanwhile, a fund of Rs. 2000.00 lakh has been paid by OADB to RGIPT as an advance (vide letter No.4/15/2017-OADB dated 18.07.2017 for construction of compound wall and other miscellaneous project related expenses for setting up of Energy Institute, Bangaluru. A further fund of Rs. 3000.00 lakhs was also paid by OADB to RGIPT (vide letter No.J-25021/6/2017-Gen/CA dated 24.07.2018) to commence academic courses from temporary campus. Since the amount has been received as an advance, the same has been reflected under Schedule-5 under Current Liabilities.

12. The Board of Governors (BoG) in its 70th meeting, held on 10th December 2022 had resolved to dispose of the ongoing dispute with M/s NCC Ltd through out of court settlement and the payment of agreed amount of Rs. 66.00 crore. In pursuant to the resolution passed by the BoG, Rajiv Gandhi Institute of Petroleum Technology (RGIPT) signed a settlement agreement with M/s NCC Ltd on 24-01-2023 to pay them a full and final payment of Rs. 66.00 crore (Rupees Sixty-Six Crore).

 ASSISTANT REGISTRAR (ACCOUNTS)	 REGISTRAR	 DIRECTOR	 PRESIDENT-BOG

Signed on 20 JUL 2023

Page: 54 of 58



SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH 2023
SCHEDULE '18'-NOTES ON ACCOUNTS

The Institute made a payment to M/s NCC Ltd in two instalments. 85% of the total amount i.e. Rs. 53,39,01,773/- (Rupees Fifty-Three Crore Thirty-Nine Lakhs One Thousand and Seven Hundred Seventy-Three Only) was paid in 1st installment through Cheque No- 652701 (State Bank of India) dated 24-01-2023. The second and final payment of Rs. 9,42,17,960/- (Rupees Nine Crore Forty-Two Lakhs Seventeen Thousand Nine Hundred Sixty Only) was made on 13-03-2023 after withdrawal of Miscellaneous (Arbitration) Application No- 365 of 2021 from Commercial Court, Gautambudh Nagar.

All the relevant liabilities and provisions made against the settlement of M/s NCCL claims stands settled and closed during the Financial Year 2022-23.

13. Contingent Liabilities

- a) The following claims by the Contractors are under dispute for which Arbitration process has been invoked against the institute and the liability towards which as on 31.03.2023 is un-ascertainable:
Arbitration instituted by M/s Punj Lloyd on 26.08.2013 for Rs. 73,88,92,012/- plus interest @ 18% of Rs. 1,14,15,88,158/- accrued up to 31.03.2023 in respect of Civil and Structural Works of RGIPT Campus in Jais, against which RGIPT has filed counter claim on 29.01.2014 of Rs. 58,99,55,835/- plus interest @ 18% amounting to Rs. 86,72,35,077/- accrued up to 31.03.2023. The arbitration is under process.
- b) An arbitration award for arrear salary (approx. Rs. 4.24 lakhs plus interest) against a claim from an ex-employee is under litigation in the Court of Law and no liability has materialized as on 31.03.2023.

14. Capital Commitments

- a) RGIPT had received a sum of Rs. 121.75 Crore from GBS for procurement of equipment's and furniture at Jais during 2017-18. An amount of Rs. 121.75 crore has incurred as on 31.03.2023. A GBS of Rs. 121.75 Crore is being fully utilised during the year 2022-23. Institute has made capital commitment of Rs. 7.83 crore for the construction of Boys and Girls Hostel during the FY 2022-23.
- b) Construction of Academic Building and Hostels of Rs. 21.55 Crore on 150 acres of Land at Energy Institute, Bengaluru by M/s Nirmithi Kendra (Karnataka).
- c) Construction of Central Workshop, Hostel, Academic Building, and allied facilities of Rs 42.21 Crore at Assam Energy Institute, Sivasagar by CPWD, Guwahati.



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Signed on 20 JUL 2023

Page: 55 of 58

SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH 2023
SCHEDULE '18'-NOTES ON ACCOUNTS

15. Immovable Asset/ Land

1. The Rajiv Gandhi Institute of Petroleum Technology (RGPT), Jais, Amethi had purchased a land measuring 18.167 Hectares (44.89 acres) at Village- Mubarakpur Mukhatia, Bahadurpur, Post- Harbanshgari, Tehsil- Tiloi, Jais, Amethi, Uttar Pradesh from M/s Indian Oil Tanking Ltd (A registered company incorporated under the Companies Act, 1956) vide Sale Deed dated 18th February 2008.
2. The Government of Assam had allotted a land measuring 100 acres at Village- Gohain Gaon, Dhari Ali Road, Akhoiphutia, Sivasagar- 785697, Assam to Rajiv Gandhi Institute of Petroleum Technology (RGPT) to establish its centre, namely- Assam Energy Institute (AEI), Sivasagar.
3. The Government of Karnataka has allotted a land on lease measuring 150 acres at Survey No- 127-P of Kambalipura Village, Soolibele Hobli, Hoskote Taluk, Bengaluru Rural District, Karnataka to establish its centre, namely- Energy Institute (EIB), Bengaluru. The lease of land is valid up to 22-03-2026.

The details of above-mentioned land are as follows:

Sl. No.	Particulars	Book Value as on 31.03.2023	Leasehold/ Freehold	Area of Land
1	Rajiv Gandhi Institute of Petroleum Technology (RGPT), Jais, Amethi, Uttar Pradesh	4,47,03,296.59	Freehold	18.167 Hectares (44.89 acres)
2	Assam Energy Institute (AEI), Sivasagar, Assam	60,97,535.00	Freehold	100 acres
3	Energy Institute (EIB), Bengaluru, Karnataka	150.00	Leasehold	150 acres

Accordingly, an amount of Rs. 5,08,00,831.59 has been shown as Capital Reserve under Schedule-2.






ASSISTANT REGISTRAR (ACCOUNTS) REGISTRAR DIRECTOR PRESIDENT-BOG

Signed on: 20 JUL 2023

Page: 56 of 58



SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH 2023
SCHEDULE '18'-NOTES ON ACCOUNTS

16. Lease

The Institute has taken premises on lease (operating lease) at Sivasagar and Bengaluru for the purpose of Boys and Girls Hostels and for transit campus respectively. The details of premises taken on lease are as follows:

Sl. No.	Premises taken on Lease	Name of the Lessees	Lease Start Date	Monthly Rent	Lease Expiry
1	Boys Hostel-1, Sivasagar	Sibsagar Commerce College, Sivasagar	01.09.2017	40,000.00	31.05.2023
2	Boys Hostel-3, Sivasagar	Harunal Rashid	01.08.2018	55,000.00	31.03.2023
3	Boys Hostel-7, Sivasagar	Bitul Baruah	01.09.2019	30,000.00	31.07.2023
4	Girls Hostel-1, Sivasagar	Ruprekha Baruah	01.09.2019	60,000.00	31.07.2023
5	Girls Hostel-2, Sivasagar	PD Enterprises	01.09.2019	25,000.00	31.08.2022
6	New Boys Hostel-1, Sivasagar	Kabir Ahmed Bhuyan	01.03.2021	94400.00	31.07.2023
7	New Boys Hostel-2, Sivasagar	PD Enterprises	25.10.2021	75,000.00	24.11.2022
9	Transit campus of EIB, Bengaluru	Nitte Institute of Technology	01.08.2020	1,10,000.00	30.06.2022
10	Transit campus of EIB, Bengaluru	Sri Venkateshwara College of Engineering	01.07.2022	1,25,000.00	30.06.2024
11	Boys Hostel for MBA students	Rajiv Gandhi National Aviation University (RGNAU), Amethi	15.11.2022	1,60,000.00	14.11.2023
15	Girls Hostel-2, Sivasagar	PD Enterprises	01.09.2019	25,000.00	31.08.2022

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Signed on: 20 JUL 2023

SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH 2023
SCHEDULE '18'-NOTES ON ACCOUNTS

Hiring out of Fixed Asset of Lease (GFR Rule No-212)

Sl. No.	Premises Given on Lease	Name of the Lessees	Lease Start Date	Monthly Rent	Lease Expiry
1	Space for Bank in Commercial Complex, RGIPT Jais, Amethi	Bank of Baroda	03-05-2017	3770/-	02-05-2027
2	Space for Post Office in Commercial Complex at RGIPT Jais, Amethi	India Post	--- Given free of cost due to Government of India agency.		
3	Space for Grocery Shop in Commercial Complex at RGIPT Jais, Amethi	M/s S. R. Enterprises, Rae Bareilly	26-02-2019	759/-	30-04-2024



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REGISTRAR

M. S.

DIRECTOR

S. S.

PRESIDENT-BOG

20 JUL 2023

Signed on:

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विधारत्नम् महद्भनम्

राजीव गांधी पेट्रोलियम प्रौद्योगिकी संस्थान
जायस, अमेठी, उत्तर प्रदेश

No. DUA(E) Rep/01-168/ACB - RU/PT/2023-24/316



भारतीय लेखापरीक्षा और लेखा विभाग
कार्यालय महा निदेशक लेखापरीक्षा (ऊर्जा)
नई दिल्ली

INDIAN AUDIT & ACCOUNTS DEPARTMENT
Office of the Director General of Audit (Energy)
New Delhi



Dated: 23/11/2023

To,

The Secretary to the Government of India,
Ministry of Petroleum and Natural Gas,
Shastri Bhawan,
New Delhi -110001

Subject: Separate Audit Report on the Annual Accounts of Rajiv Gandhi Institute of Petroleum Technology for the year 2022-23.

Sir,

I am to forward herewith the Separate Audit Report on the Annual Accounts of Rajiv Gandhi Institute of Petroleum Technology for the year 2022-23 along with the Annual Accounts for the year 2022-23.

The Separate Audit Report and Annual Accounts may kindly be laid on the table of both the Houses of the Parliament.

Two copies of the document as presented to both the Houses of the Parliament may kindly be forwarded to this office with an intimation regarding the date(s) on which these are laid on table of both the Houses of the Parliament.

Encl: As above.

Yours faithfully,

(Sanjay K. Jha)
Director General

Separate Audit Report of the Comptroller & Auditor General of India on the Annual Accounts of Rajiv Gandhi Institute of Petroleum Technology for the year ended on 31 March 2023

We have audited the attached Balance Sheet of Rajiv Gandhi Institute of Petroleum Technology (RGIPT), Uttar Pradesh as at 31 March 2023 and the Income & Expenditure Account/Receipt & Payment Account for the year ended on that date under Section 19(2) of the Comptroller & Auditor General's (Duties, Powers & Conditions of Service) Act, 1971 read with Section 26 of the Rajiv Gandhi Institute of Petroleum Technology Act, 2007. These financial statements are the responsibility of RGIPT's Management. Our responsibility is to express an opinion on these financial statements based on our audit.

2. This Separate Audit Report contains the comments of the Comptroller & Auditor General of India (CAG) on the accounting treatment only with regard to classification, conformity with the best accounting practices, accounting standards and disclosure norms, etc. Audit observations on financial transactions with regard to compliance with the Law, Rules & Regulations (Propriety and Regularity) and efficiency-cum-performance aspects etc., if any, are reported through Inspection Reports/CAG's Audit Reports separately.
3. We have conducted our audit in accordance with auditing standards generally accepted in India. These standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatements. An audit includes examining, on a test basis, evidences supporting the amounts and disclosure in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of Financial Statements. We believe that our audit provides a reasonable basis for our opinion.
4. Based on our audit, we report that:
 - (i) We have obtained all the information and explanations, which to the best of our knowledge and belief were necessary for the purpose of our audit;
 - (ii) The Balance Sheet and Income & Expenditure Account/Receipt & Payment Account dealt with by this report have been drawn up in the format approved by the Government of India.
 - (iii) In our opinion, proper books of accounts and other relevant records have been maintained by RGIPT in so far as it appears from our examination of such books.
 - (iv) We further report that:

A. COMMENTS ON ACCOUNTS

1. Balance Sheet

1.1 Corpus/Capital Fund (Schedule 1): ₹13,77.28 crore

The above includes fund of ₹583.80 crore contributed by Oil Companies to RGIPT for creation of an Endowment Fund, interest income of which was to be utilised for meeting the recurring expenditure of the concerned projects (i.e., AEI Sivasagar and RGIPT JAS).

This has resulted in overstatement of 'Corpus/Capital Fund' (Schedule 1) and understatement of 'Earmarked/Endowment Fund' (Schedule 3), each by ₹583.80 crore.

1.2 Investment-Others (Schedule 8): ₹8.84 crore

The above includes an amount of ₹2.77 crore, paid by RGIPT in Life Insurance Corporation of India, towards investment of gratuity and leave encashment fund on 19-05-2023, i.e. after

closing of the financial year 2022-23 by way of creation of sundry creditors by equal amount. This has resulted in overstatement of both, 'Investments-Others' and 'Current Liabilities (Schedule 5)' by ₹2.77 crore each.

2. Income & Expenditure Account

2.1 Other Administrative Expenses (Schedule 15): ₹9.07 crore

The above does not include an amount of ₹17.09 crore, paid by RGIPT in full and final settlement to NCCL, towards interest payment in the dispute between them due to some contractual obligations. As per AS-10, 'Property Plant and Equipment', cost of an asset shall include any cost directly attributable to bringing the asset to the location and condition necessary for it to be capable of operating in the manner intended by the management. As the interest cost had arisen out of a dispute between the parties and was not directly attributable to bringing the asset to location and condition necessary for it to be capable of operating in the manner intended by the management, the same should have been charged as 'Other Administrative Expenses' under 'Income & Expenditure Account', rather than capitalizing under 'Fixed Assets' (Schedule 6).

This has resulted in understatement of 'Other Administrative Expenses' by ₹17.09 crore. Further, since RGIPT has charged depreciation of ₹2.87 crore on such incorrect capitalization of ₹17.09 crore under 'Deferred Revenue Income (Depreciation)', both, the 'Fixed Assets' and 'Deferred Revenue Income (Depreciation)' are overstated by ₹14.22 crore (i.e., ₹17.09 crore minus ₹2.87 crore) and ₹2.87 crore respectively.

3. General

3.1 Delay in submission of Annual Accounts.

As per the recommendations of the Committee on Papers Laid on the Table of the House (5th Lok Sabha) 1975-76 and Rule 237 of General Financial Rules, 2017, RGIPT was required to submit the Annual Accounts by 30th June each year for Certification Audit by the C&AG and the Annual Report was required to be laid before the Parliament by 31st December.

RGIPT, however, submitted its Annual Accounts for the year 2022-23 on 27 July 2023, i.e., after a delay of almost 27 days from the stipulated date.

For the year 2021-22, the Separate Audit Report was issued to RGIPT by this office on 22 February 2023 (within prescribed period for audit since submission of annual accounts by RGIPT on 26 October 2022). The annual report of RGIPT for the financial year 2021-22 is, however, yet to be laid before the Parliament.

B. Grants-in-aid

Out of the Grants-in-aid of ₹338.71 crore for capital assets (comprising unspent opening balance of ₹323.15 crore from previous year as given by Management, amount received during the year of ₹3.83 crore and interest earned ₹11.73 crore), RGIPT utilised a sum of ₹133.65 crore during the year leaving a balance of ₹205.06 crore as unutilized on 31 March 2023..

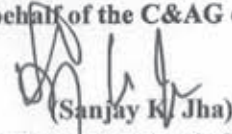
C. Management Letter

Deficiencies which have not been included in the Separate Audit Report would be brought to the notice of the Director, RGIPT, through a Management Letter issued separately for remedial/corrective action.

- v. Subject to our observations in the preceding paragraphs, we report that the Balance Sheet and Income & Expenditure Account/ Receipt & Payment account dealt with by this report are in agreement with the books of accounts.

- vi. In our opinion and to the best of our information and according to the explanations given to us, the said financial statements read together with the Accounting Policies and Notes on Accounts and subject to matters stated above and other matters mentioned in the Annexure-I to this Separate Audit Report, give a true and fair view in conformity with the accounting principles generally accepted in India
- (a) In so far as it relates to the Balance Sheet, of the state of affairs of RGIPT as at 31 March 2023 and
- (b) In so far as it relates to Income & Expenditure Account, of the excess of income over expenditure for the year ended on that date.

For and on behalf of the C&AG of India



(Sanjay K. Jha)

Director General of Audit (Energy)

Place: New Delhi

Date: November 2023

Annexure I (Referred to in Para 4 (vi))

1	Adequacy of Internal Audit System	There is an Internal Audit Wing in RGIPT which submits its reports to the Registrar (RGIPT). The Internal Audit has been conducted up to 31 st March 2023.
2	Adequacy of Internal Control System	Internal Control system is commensurate with the size and nature of activities of the entity.
3	System of verification of fixed Assets	Physical Verification of fixed Assets for the year 2022-23 has been conducted by designated Committee.
4	System of Physical verification of Inventory	Physical Verification of Consumables for the year 2022-23 has been conducted by designated Committee.
5	Regularity in payment of Statutory Dues applicable to them.	The income of RGIPT is exempt from Income Tax. RGIPT is regular in payment of statutory dues applicable to them.
6	Significant risk to financial reporting observed during the course of audit	No significant risk perceived.
7	Details of loss of cash or Government property due to theft, misappropriation, fraud and embezzlement etc. during the year	Management certified that no case was reported during the year 2022-23


Director General of Audit (Energy)



राजीव गाँधी पेट्रोलियम प्रौद्योगिकी संस्थान
Rajiv Gandhi Institute of Petroleum Technology

ANNUAL REPORT
2022-2023



राष्ट्रीय महत्व का एक संस्थान
An Institution of National Importance

Content

Director's Message	1
Chapter 1 – Director's Report	2–5
Chapter 2 – Organizational Structures	6–7
Chapter 3 – Faculty Affairs	9–14
Chapter 4 – Administration	15–17
Chapter 5 – Department of Chemical Engineering & Biochemical Engineering	18–32
Chapter 6 – Department of Petroleum Engineering Geoengineering	33–42
Chapter 7 – Department of Electronic Engineering	43–48
Chapter 8 – Department of Sciences & Humanities	49–55
Chapter 9 – Department of Management Studies	56–60
Chapter 10 – Department of Computer Science & Engineering	61–65
Chapter 11 – Department of Mathematical Sciences	66–69
Chapter 12 – Center for Computing and Information Services (CCIS)	70
Chapter 13 – Academic Programmes and Award of Degrees	71–79
Chapter 14 – Library	80
Chapter 15 – Student's Activities (DoSA)	81–83
Chapter 16 – Training & Placement	84–85
Chapter 17 – International and Alumni Relations	86
Chapter 18 – Research & Development	87–92
Chapter 19 – Assam Energy Institute, Sivasagar	93–108
Chapter 20 – Energy Institute, Bengaluru	109–120
Chapter 21 – Audited Financial Report of 2022-23	121–122
Annual Accounts 2021–22	123–180
Seperate Audit Report 2021-22	181–186



Mission

To create a dynamic state-of-the-art learning and working environment, where intellectual ideas are nurtured and new ideas creatively flourish, from which will emerge research scholars and graduates, with the ability to be the leaders and innovators of tomorrow.



Vission

To serve as the fountainhead for nurturing the individuals to a world class level capable of becoming the future leaders of technology and techno-innovation in the broad fields of petroleum technology and energy sector.



Director's Message

Welcome to RGIPT!



Dear All,
Namaskar

I welcome you on behalf of Rajiv Gandhi Institute of Petroleum Technology and thank you for showing your interest in us.

Co-promoted as an energy domain specific Institute by the six leading Indian Public Sector Oil Companies and Oil Industry Development Board, the Institute was set-up through

an act of Parliament by the Government of India. It has been accorded the status of Institution of National Importance empowering to conduct high quality R&D work and award Bachelors, Masters, Doctoral and Post Graduate Diploma Degrees in different streams relevant to Petroleum Science and Technology including Management. For years RGIPT has been educating young men and women who entered its community and attained their transformation into responsible citizens and leaders of Petroleum and Energy Related Fields. RGIPT has emerged as a leading institution in Petroleum engineering and energy related fields. At RGIPT we are trying to build an education system that is meant to be transformative – academically, socially, and personally. “Excellence and Values” are our guiding principles which are reflected in every activity of the Institute.

Our aim at RGIPT is to provide a safe, secure environment in which every student will acquire the skills and knowledge necessary to become accomplished, productive members of the ever-changing, global energy community. Students are being positioned to make key contributions to the advancement of technology solutions and sustainability research and to help lead the way toward sustainable growth of technological resources. The institute is preparing the next generation of leaders more prominently called “Energy Crusaders” who will carry this path forward in the years ahead. Our faculty is a very dedicated group of individuals who continue to focus on providing the best possible instruction for our students. RGIPT offers a number of opportunities for students to get involved outside of the classroom through sports, clubs, and community service by the name of “Gyan Arpan”.

We try to enable students to venture beyond their “comfort zones” both inside and outside the classroom. Through the efforts of our accomplished faculty, our talented students and exceptional alumni, we have been able to make rapid progress on our path of continuous growth and innovation. The Internship embedded B.Tech. Programme is launched at the Institute following the guidelines of NEP 2020 to provide the students with the opportunity to pursue long term internships up to 16 weeks in industries.

Opening of Design and Innovation Centre, E-Cell are the steps to make the students leaders and entrepreneurs who will empower their organizations in the global economy. At the same time, the Institute remains deeply rooted in the region and the nation. An underlying priority is to instill in our students a sense of commitment and to have a socially responsible impact. With this the institute has started Community Internship Program to help the people in nearby villages in Amethi Area. So far RGIPT and HAL Korwa in tandem have enabled 400 students of the district with smartphones to continue their online studies in the academic year 2022-2023.

It is well established fact in modern times that no country make effective progress until its females get equal opportunity and support. As an academic and research institution “RGIPT” has taken a step with “Urja Shakti” event to make the progressive dreams of daughters of India true. The Urja Shakti event is an initiative by RGIPT to promote women’s presence in the Energy Sector. The name “Urja Shakti”, itself tells about the idea of this event, “Urja” represents the theme of the event - Energy and “Shakti” represents Feminine Power. The event is a national-level write-up competition for female undergraduate engineering students. The winners of the event are rewarded with a cash prize. It is an opportunity for participants to share their novel and innovative ideas in front of experts in the field.

The institute is undergoing campus expansion with a girl’s hostel with the occupancy of 208 students, married scholar’s residence of 30 (2 bedroom occupancy) and 5 (1 bedroom occupancy), Director’s residence, Renovation of existing covered area for creating new classrooms, teaching and research labs and faculty cabins. Further work is underway to build boy’s hostel of 950 occupancy, new academic buildings to cater the requirement generated due to the creation of new academic departments and launching of new academic UG/PG programs. Development of robust infrastructure is our priority, and the Institute has state-of-the-art centre in AI & ML, Center for Innovation and Incubation.

Faculty are pillars of an academic institution the growth and development of the institution is reliant on the research and teaching efficiency of its faculty members. RGIPT is bestowed with a talented pool of 63 faculty members, spread across 07 versatile departments. The institute has recently extended and strengthened its pool of faculty by recruiting 9 new talented candidates.

Hopefully, our labors in all the major areas of science and technology will produce fruitful results in academic innovation, top-tier journal publications, citations and technology developments. Wish you happy, healthy, and fruitful year ahead.

Professor A.S.K Sinha

Director's Report

I am privileged to present the Annual Report of RGIPT for the academic year 2022-23. It has been a year where simply by focusing on our objectives we could overcome some serious challenges. I feel happy and proud to report that RGIPT is making rapid progress in academics, research and outreach. Rajiv Gandhi Institute of Petroleum Technology (RGIPT), Jais, is an autonomous institution established by the Government of India. The Institute has been accorded the status of "An Institution of National Importance" along the lines of the Indian Institutes of Technology (IIT) under an Act of Parliament ("Rajiv Gandhi Institute of Petroleum Technology Act 2007"). RGIPT is co-promoted as an energy domain specific institute by six leading Oil Public Sector Units (ONGC, IOCL, OIL, GAIL, BPCL and HPCL) in association with the Oil Industry Development Board (OIDB). The Institute is associated with leading international universities and institutions specializing in the domain of Petroleum & Energy Technology. Institute's prime objective is to provide world class education, training, and research to roll out competent human resources to meet the growing requirements of the Petroleum & Energy Sector.

The B. Tech. programmes of the Institute are aimed at developing manpower with sound theoretical and experimental background in frontier areas of engineering, sciences and interdisciplinary subjects pertaining to petroleum and energy. RGIPT has been established by an Act of Parliament by the Ministry of Petroleum and Natural Gas, Govt. of India, as an "Institute of National Importance". RGIPT is the first Centrally Funded Technical Institute in the country that has been set-up in the domain of Petroleum and Energy.

I would like to inform that this new campus has been built with the Government of India budgetary support of over Rs. 370 crores. The state-of-art new campus is built on 47 acres of land having facilities to accommodate 1100 students. The campus includes two academic

buildings with 16 lecture rooms and 20 teaching and research laboratories, in-campus residential complex, provision for commercial complex, health center, guest house, play facilities, hostels and this glorious auditorium. In our effort to save energy, solar panels are installed on the roof of both the academic buildings as per the MNRE guidelines.

To further supplement the academic endeavors of RGIPT, two more centers were established at Sivasagar, Assam and Bengaluru. The Sivasagar, Assam center is set up to provide skill development training and diploma and advanced diploma level degrees in areas pertaining to oil and gas, whereas the Bangalore center is established for commercialization of technology, consultancy services, promote entrepreneurship and translational research. Currently, the Assam center is offering three-year Diploma programmes in Chemical Engineering, Mechanical, Electronics and Instrumentation Engineering and Fire and Safety Engineering with an intake of 60 students in each discipline. The Bangalore Energy Institute is currently offering M.Tech. programmes in 7 different streams.

Few Initiatives and Achievements

RGIPT has tried to reform the curriculum as per National Education Policy. Currently, RGIPT Jais is offering 10 Undergraduate Programmes under 7 different streams, 3-Postgraduate (M. Tech. in Petroleum & Chemical and M.B.A.) and Doctoral programmes in various disciplines of Engineering, Sciences, Humanities and Management. Quite a few candidates were also selected for the M. Tech. programme under the Sponsored and Q.I.P. programs through interviews and/or written tests.

RGIPT is consciously in pursuit of meeting the industry expectations from the fresh graduates. An empowered committee is currently working on the revision of the syllabus (based on industry inputs) for UG & PG programmes in order to promote

capacity building in competencies required by the hydrocarbon and energy sectors. The institute has focused on inculcating accelerated research as a habit of innovation, nurturing a culture of entrepreneurship, and invoking synergy through collaborations. RGIPT has signed MOU with 11 industries, CSIR labs, IITs and other educational institutes for residential training, joint collaborative research, develop and promote excellence and knowledge exchange between the parties. We have initiated extensive efforts for- harboring cooperation with hydrocarbon industries and strengthen our bonds with peer elite institutions. RGIPT ensures a regular exposure to the students through- industry visits to oil refineries of PSUs and various R&D facilities. The institute also arranges periodic field trips for students to earn learning in real-time.

The CCIS unit of the institute provides uninterrupted Gigabit network connectivity to the entire campus including Academic Buildings, Student Hostels, Central Library, Administrative Building, Vivekananda Lecture Hall, Commercial Complex, Guest Hostel, Health Centre and Employee Residences through official architecture. Internet access is provided by a dedicated lease line of 1:1 from National Knowledge Network (NKN) of 1 Gbps LAN and Wifi. The Institute is a part of the National Knowledge Network (NKN) under which all the national level institutes are connected via the high-speed fiber network. Cisco Wi-Fi controller (Cisco-5520) with scalability of 1500 access points option of 2x10 Gigabit Ethernet interfaces or 2 Gigabit Ethernet interfaces. It has inbuilt license to support 400 numbers of access points. The campus is well equipped with latest Cisco indoor and outdoor Access points.

Apart from spearheading the scientific and technological progress, Rajiv Gandhi Institute of Petroleum Technology (RGIPT), Jais, Amethi wants to make a significant contribution in towards poverty alleviation, and bring about sustainable livelihood for the people of district. The conceptualization of Project Amethi started with the initiative of a group of student and faculty members of our Institute about educating the school childrens in nearby areas of the Institute. This project is alligned and integrated with a vision of education and inclusive development. It encapsulates the scope, methodology and development of the requisite structure, administrative and people's involvement. Project Amethi provides a framework of a holistic

paradigm, in which four different programmes are envisioned – ज्ञान अर्पण (Gyan Arpan) programme for augmenting the learning and the capabilities of school students; RISE programme for creating support system for Research, Innovation and Incubation; MUST programme for Sample Testing and Consultancy Services; and सौहार्द (Souhardya) programme for social awareness on health, cleanliness, water conservation, plastic pollution and others.

Training & Placement

During 2022-23, the placement activities for the UG-PG students for the year 2022-23 witnessed participation of 30 companies visit the campus for holding tests and campus interviews. Further, many companies recruited off- campus. A fraction of students continued to show interest in higher studies. Several firms from energy, services, consulting and manufacturing sectors visited the campus for offering placement to graduating students, which also included national Oil PSUs. The placement season runs through the course of the year commencing the last week of October through to May.

Students

At the RGIPT the students are focused on academics and are ever ready to leave an imprint on a global scale with their repertoire of knowledge and skills, and this is evident from our awards and achievements. With a total of 272 scholarships awarded, students have been accorded prestigious scholarships such as Uttar Pradesh Scholarship, EIL scholarship, Mukhya Mantri Medhavi Vidhyarthi Scholarship etc. Many students visited foreign countries for the presentation of their research work. PhD student, Mr. Himanshu Kesarwani presented his research work in 83rd EAGE Annual Conference & Exhibition held in Madrid, Spain. Mr. Kalidas P, M.Tech student presented his work in 1st World energy storage conference 2022 in Turkey. Another M. Tech student, Alok Kumar Chaudhary was awarded with National Youth Award from Ministry of Youth Affairs and Sports. Several students from Computer Science Department emerged as finalist at UNESCO India Africa Hackathon, Singapore India Hackathon and Hackistica Hackathon. One of the B. Tech CSE students also went for 6 month Internship at Hong Kong University. 1. ISPRS congress, Nice, France awarded international travelling and paper

presenting grants to students for presenting the research papers. 4 students from Electronics and Electrical Engineering Department won e-yantra award by IIT-Bombay. A team of 6 students from E& E Department also emerged as runners-up in Smart India Hackathon held in Kanjirapally, Kerala. A 4th-year chemical engineering student, stood second in the UG category in the All India New Generation Ideation Contest 2022 organised by HPCL. One student from CEBE Department received Donald F. Othmer second year student academic excellence award (2022-23) by international body of AIChE (New York, USA), December 2022. Another student from CEBE received First year recognition award (2022-23) by international body of AIChE (New York, USA), January 2023.

While our students strive for academic excellence, they are also sensitive towards society and do things that touch people and communities – they run a social initiative club, called ARPAN.

RGIPT Alumni Cell has organized an online interaction with its Alumni of various batches and Head of the Departments, Faculty members and with Honorable Director, RGIPT related to training and placement opportunities for RGIPT students on 17th December 2022. The Department Level Committees have been constituted (2023) namely, Alumni Engagement and Mentorship Committee to involve alumni for their valuable feedback, suggestions, and to discuss internship, projects and placement opportunities for our students. To recognize our Alumni's success, creativity, and unique innovation in their profession, Alumni Association has introduced "Young Alumni Achievement Award". The nominations for this award have been received. Further, to make a strong network with our alumni, Alumni cell has introduced Alma connect portal which is an alumni networking platform. Till now, we have had 500 alumni connected with the platform.

Faculty

The growth of any academic institution is reliant on the research and teaching efficiency of its faculty members. RGIPT is blessed with a talented pool of 63 faculty members. All are PhDs from leading institutions like IITs, BHU, Minnesota, Tennessee, University of Pennsylvania, Kansas State, Max Plank Germany with some having post-Doctoral experience.

Furthermore, many experts from industry visit the Institute to deliver guest lectures and to motivate the students. The Institute also encourages exchange visits of faculty members to acclaimed institutes for professional growth. Head PEGE visited USA for SEG conference in August, 2022. One of the faculty from PEGE department have also delivered a lecture to Persian Gulf University, Iran. One of the faculty from EIB visited Republic of Korea for 1 month from July-August, 2022.

Conferences and Short Term Courses

International Conference on Human Capital Development for Energy Transition at Noida from Feb. 27-28, 2023 by Department of Management studies.

Rajiv Gandhi Institute of Petroleum Technology (RGIPT) conducted AI-enabled quality tools for data inspection for HAL Korwa on 28th November, 2022.

CEBE Department organized Recent Advances in Oil and Gas Production Enhancement from 14th to 18th February 2022. The Department also organized Corrosion in petroleum refineries and petrochemical industries from 16th to 20th January 2023, a course on Petroleum Refining Technology from 18th to 22nd July 2022 and 7th to 11th March 2022.

Rajiv Gandhi Institute of Petroleum Technology (RGIPT) also organized the training program for IOCL Engineers from 26-30th June 2023.

EIB Center of RGIPT organized International Level Conference on Digitalization in Energy Sector (DES 2022) on 5-6 December, 2022. The center also organized Training cum FDP on Real-time Simulation and Its applications in E-mobility using Typhoon HIL from 26-30 September, 2022.

14 September 2022 was observed as the Hindi Diwas at the Rajiv Gandhi Institute of Petroleum Technology (RGIPT). A workshop for non-teaching staff was organized on this occasion.

Research Activities

The research at RGIPT has been always a core activity, since inception. The institute caters to actively involve B. Tech students also in various

on-going research activities along with the M. Tech and Ph. D students, as the research environment here is very dynamic at every level. As a result of this, our B. Tech students have published their works in the journals including Journal of Physical Chemistry C and Chemistry Select and filed one Indian Patent as well. The faculty members have published 40 books and more than 250 papers in last three years. This year since February faculty members have published a total of 166 papers, 20 books and 60 conference proceedings, which is comparable to any of the elite institutions. The research articles from RGIPT have been published by the internationally reputed publishers such as: American Chemical Society, Royal Society of Chemistry, Elsevier, Wiley Interscience and Springer etc. Our faculty members have been invited to deliver lectures both at nationally and internationally. Currently, 29 externally funded research projects from DST, DAE, CSIR etc. are ongoing. This year itself 09 externally funded research projects from Industrial consultancy have been received by the faculty members. RGIPT has also initiated the in-house project funding to support the research activities of faculty members. Under this scheme 21 projects are currently running with the total cost of 1.95 crore rupees.

RGIPT has recently signed MoUs with Northern (Arctic) Federal University, University Teknologi Brunei, CSIR -NIIST Jorhat, IIT Kanpur, IIT Bombay, IIT Roorkee, IIT Guwahati, CSIR- IIT and CSIR-CIMFR, GERMI for research and academic collaboration. The director, RGIPT, and faculty members have visited and made presentations at various R&D centres of oil & gas PSUs to expedite the Industry-Academic collaboration.

Research Facility & Infrastructure

RGIPT has created a separate lab space for central research facility to accommodate more than 20 high-end instruments. Since last one year, numerous analytical instruments such as GC-FID-TCD-DHA, Multichannel Potentiostat, Confocal Raman Spectrophotometer, Spark Plasma Sintering have been installed at various laboratories. The institute has also initiated the procurement of more new equipment including Bench Scale catalytic bed reactor, Interfacial Tensiometer, Microscope with heating facility etc.

Library

The RGIPT central library is fully computerized with a large and ever growing collection of books. It is being developed as world class academic library and information center in the field of petroleum science and technology. The building is centralized air-conditioned, equipped with service essential for its reader. Currently, more than 13000 books covering engineering, science, humanities and social science are available in the library. Currently, we are in the process to create the text book bank for the students in the library. A total of 21 printed journals, 5 E-journals, 14 magazines and access to over 30,000 full text online journals are available in the library. Campus wide internet connectivity provides students access to online library resources such as Infraline, EBSCO, Emerald, American Chemical Society (ACS), One Petro, SEG, AAPG etc. Library remains open from 10 AM to 12 midnight on all working days. During the examinations library remains open round the clock.

Thank you all very much.

Jai Hind!

Chapter 2

Organizational Structures

General Council

Chairperson

Secretary

Ministry of Petroleum and Natural Gas
Government of India

Members

- Chairman, IOCL
- CEO, Essar Group
- CMD, BPCL
- Director General, DGH
- CMD, HPCL
- Advisor (Energy), NITI Aayog
- CMD, ONGC Ltd.
- Executive Director, OISD
- CMD, GAIL (India) Ltd.
- Director, IIT Kanpur
- CMD, OIL
- Vice-Chancellor, ICT Mumbai
- CEO, RIL
- Secretary, OIDB
- CEO, Cairn Energy
- President, RGIPT
- CEO, Shell India
- Director, RGIPT

Board of Governors

Dr. S. Shamasundar
President – BoG, RGIPT

Professor A. S. K. Sinha
Director, RGIPT

Dr. Biswajeet Roy
Director General, GERMI

Professor Yogesh M. Joshi
Professor, IIT Kanpur

Shri Ranjan Mohapatra
Director (HR), IOCL

Dr. Alka Mittal
Director (HR), ONGC

Dr. V. K. Saraswat
Member, NITI Aayog

Shri Prasad Panickar
Director & Head, Nayara Energy Ltd.

Professor Yogesh M Joshi
Director (HR), HPCL

Professor Pradeep Srivastava
Prof., IIT BHU & Exe-Director, TIFAC

Professor Sanjay Kumar Kar
Professor, RGIPT

Professor Chanchal Kundu
Professor, RGIPT

Secretary

Shri Jitendra Prasad
Registrar

Finance Committee

Dr. S. Shamasundar
President – BoG, RGIPT

Professor A. S. K. Sinha
Director, RGIPT

Professor Yogesh M. Joshi
Professor, IIT Kanpur

Professor S. S. Yadav
DoMS, IIT Delhi

Dr. Biswajeet Roy
Director General, GERMI

Smt. Perin Devi
Joint Secretary, MoPNG

Secretary

Shri Jitendra Prasad
Registrar



Senate

Chairperson

Professor A. S. K. Sinha
Director, RGIPT

Members

Shri S.K. Bose
Executive Director-HR, IOCL

Shri Nikhil Katiyar
VP & Head-HR, Reliance BP

Dr. Narendra Kumar
Executive Director,
Torrent Gas

Professor Chanchal Kundu
Dean, Academic Affairs

Professor M.S. Balathanigaimani
Dean, Research & Development

Professor Alok Kumar Singh
Dean, Non-Teaching Staff

Professor Sanjay Kumar Kar
Dean, Faculty Affairs

Dr. Saurabh Mishra
Dean, Student Affairs

Dr. Kavita Srivastava
Dean, Planning, Resources &
Alumni

Professor A. K. Choubey
Head, Sciences & Humanities

Professor Chanchal Kundu
Head, Mathematical Sciences

Professor. Satish Kr. Sinha
Head, Petroleum Engg. &
Geoengineering

Dr. Milan Kumar
Head, Chemical Engg. &
Biochemical Engg.

Dr. Jaya Srivastava
Head, Management Studies

Dr. Susham Biswas
Head, Computer Sciences & Engg.

Dr. U. D. Dwivedi
Head, Electronics Engineering

Professor Amit Ranjan
Professor

Professor Atul Sharma
Professor

Dr. Arjun Deo
In-charge, EIB

Shri Chinmoy Jit Sarma
In-charge, AEI

Dr. Atul Sharma
Chairman, Senate Library
Committee

Dr. Debashis Panda
Associate Professor

Dr. Tushar Sharma
Associate Professor

Dr. Manoj Kumar Rajpoot
Associate Professor

Dr. Debashis Jena
Assistant Professor

Dr. Shivanshu Srivastava
Assistant Professor

Dr. Bhaskar Jyoti Medhi
Assistant Professor

Dr. Roopa Manjunath
Assistant Professor

Secretary

Shri Jitendra Prasad
Registrar



Chapter 3

Faculty Affairs

Brief Introduction

All the matters related to the recruitment and establishment of faculty members and other academic staff comes under the purview of the Office of the Faculty Affairs. Sanction of leave, foreign travel, Cumulative Professional Development Allowance (CPDA) and LTC, issue of service certificates, issue of 'No Objection Certificates' (NOC) for various purposes are issued by the Office of the Faculty Affairs.

Faculty Position (as on 31st March 2023)

Faculty Members in Position

	RGIPT, Jais	Energy Institute Bengaluru (EIB)	Assam Energy Institute (AEI)
Faculty Members	63	8	13

	RGIPT, Jais	Energy Institute Bengaluru (EIB)	Assam Energy Institute (AEI)
DST Inspire Faculty	1	1	0
Visiting Faculty	4	0	0

Faculty & Staff Members appointed during 2022-23

	RGIPT, Jais	Energy Institute Bengaluru (EIB)	Assam Energy Institute (AEI)
Professors	9	0	0
Associate Professors	7	0	0
Assistant Professors	8	1	0
Lecturers	0	0	0
DST Inspire Faculty	1	0	0
Visiting Faculty	3	0	0

List of Faculty appointed during 1st April 2022-31st March 2023

Jais Campus

S. No.	Name of Faculty	Designation	Department/Section	Date of Joining
1	Dr. Mohd Irfan	Associate Professor	Management Studies	03.08.2022
2	Dr. Shrawan Kumar Trivedi	Assistant Professor	Management Studies	01.07.2022
3	Dr. Rahul Kumar	Assistant Professor	Computer Science & Engineering	09.05.2022
4	Dr. Kalka Dubey	Assistant Professor	Computer Science & Engineering	12.05.2022
5	Dr. Pallabi Saikia	Assistant Professor	Computer Science & Engineering	28.07.2022
6	Dr. Akash Yadav	Assistant Professor	Computer Science & Engineering	30.03.2023
7	Dr. Ankur Pandey	Assistant Professor	Electricals and Electronics Engineering	29.09.2022
8	Dr. Vijay Kumar Singh	Assistant Professor	Electricals and Electronics Engineering	03.10.2022
9	Dr. Saptrishi Ghosh	Assistant Professor	Electricals and Electronics Engineering	15.12.2022

Jais Campus – Visiting Faculty

1	Mr. Chandra Kant Tiwari	Visiting Faculty	Visiting Faculty AI (Centre of Excellence)	29.03.2023

Energy Institute Bengaluru (EIB)

S. No.	ID No.	Name of Faculty	Designation	Department/Section	Date of Joining
1	N.A.	Dr. Chandrakant	Assistant Professor	EIB	06.10.2022

List of internal faculty members who joined during the period from 1st April 2022-31st March 2023

S. No.	Name of Faculty	Designation	Department/Section	Date of Joining
1	Prof. A.K.Singh	Professor	Petroleum Engineering & Geoengineering	26.09.2022
2	Prof. S.K.Sinha	Professor	Petroleum Engineering & Geoengineering	26.09.2022
3	Prof. M. S. Balathanigaimani	Professor	Chemical Engineering & Biochemical Engineering	26.09.2022
4	Prof. Amit Ranjan	Professor	Chemical Engineering & Biochemical Engineering	26.09.2022
5	Prof. Umapasana Ojha	Professor	Sciences & Humanities	26.09.2022
6	Prof. A.K. Chaubey	Professor	Sciences & Humanities	26.09.2022
7	Prof. Atul Sharma	Professor	Sciences & Humanities	26.09.2022
8	Prof. Sanjay Kumar Kar	Professor	Management Studies	26.09.2022
9	Prof. Chanchal Kundu	Professor	Mathematical Science	26.09.2022
10	Dr. Tushar Sharma	Associate Professor	Petroleum Engineering & Geoengineering	20.04.2022

Annual Report 2022–2023

S. No.	Name of Faculty	Designation	Department/Section	Date of Joining
11	Dr. Shivanjali Sharma	Associate Professor	Petroleum Engineering & Geoengineering	26.09.2022
12	Dr. Milan Kumar	Associate Professor	Chemical Engineering & Biochemical Engineering	26.09.2022
14	Dr. Rohit Bansal	Associate Professor	Management Studies	26.09.2022
15	Dr. Susham Biswas	Associate Professor	Computer Science & Engineering	20.04.2022
16	Dr. MK Rajpot	Associate Professor	Mathematical Science	06.10.2022

Faculty members who resigned/were relieved during 1st April 2022-31st March 2023

S. No.	ID No.	Name of Faculty	Designation	Department/Section	Date of Relief (with FN/AN)
1	N.A.	Dr. Vishnu Chandrasekharan Nair	Assistant Professor	Petroleum Engineering & Geoengineering	31.05.2022
2	N.A.	Dr. Jeyakkumar Karthikeyan	DST Inspire	Science & Humanities	28.07.2022

Faculty members on long leave during 1st April 2022-31st March 2023

S. No.	Name	Designation	Department	From	To	Details
1.	Dr. Shweta	Assistant Professor	Chemical Engineering & Biochemical Engineering	19.01.2023	17.07.2023	124 days Maternity Leave
2.	Dr. Shivanjali Sharma	Associate Professor	Petroleum Engineering & Geoengineering	31.01.2023	28.07.2023	125 days Maternity Leave
3.	Dr. Sravanti Medhi	Assistant Professor	AEI	05.09.2022 04.03.2023	03.03.2023 06.07.2023	121 days Maternity Leave 86 days CCL
4.	Dr. Nimisha Raghuvanshi	Assistant Professor	AEI	30.01.2023	28.07.2023	180 days Maternity Leave

Faculty members on extraordinary leave during 1st April 2022-31st March 2023

Sl. No.	Persons who attended	Location	Course title	Duration	Section/ Department	Organization Where attended
1	Dr. Niraj Kumar	Assistant Professor	Computer Science & Engineering	13.02.2023	12.02.2024	365 days EOL
2	Dr. Supriya Pulipaka	Assistant Professor	Chemical engineering & Biochemical Engineering	28.11.2022 09.03.2023	21.02.2023 06.06.2023	90 days EOL 90 days EOL

Human resource development

External Training

Sl. No.	Persons who attended	Location	Course title	Duration	Section/ Department	Organization Where attended
1	Dr. Shailesh Kumar	JAIS	“Whole Value Chain Carbon Capture, Utilization And Storage” Workshop	17-19.10.2022	Petroleum Engineering & Geoengineering	Gail-Gti, Noida, India.
			Flow Assurance Using Olga Simulation Workshop	07.05.2022		By Alchemical
2	Dr. Amit Kumar	JAIS	“Whole Value Chain Carbon Capture, Utilization And Storage” Workshop	17-19.10.2022	Petroleum Engineering & Geoengineering	Gail, Noida, India
3	Dr. Daya Sagar Gupta		Agm Meeting Of The Ieee	20.01. 2023	Computer Science & Engineering	Iit Bhu Varanasi
4	Dr. Rakesh Kumar		Activity Committee Meet (Acm) On Bio-Fuels	20.03. 2023	Chemical Engineering & Biochemical Engineering	Numaligarh Refinery Assam

Annual Report 2022-2023

Sl. No.	Persons who attended	Location	Course title	Duration	Section/ Department	Organization Where attended
5	Dr. Hemant Kumar Singh	JAIS	Industrial Visit To Institute Of Reservoir Studies (Irs), Ongc	11-16.12.2022	Petroleum Engineering & Geoengineering	Ahmedabad, Gujarat
6	Dr. Tushar Sharma	JAIS	Industrial Visit Irs- Ongc	11-16.12.2022	Petroleum Engineering & Geoengineering	Ahmedabad
7	Dr. Amit Saxena	JAIS	“Whole Value Chain Carbon Capture, Utilization And Storage” Workshop	17.19.10.2022	Petroleum Engineering & Geoengineering	Gail-Gti, Noida
8	Dr. Shivanjali Sharma	JAIS	“Women In Science And Technology-Fostering Innovation Workshop	29-30.09.2022	Petroleum Engineering & Geoengineering	Iit Gandhinagar
9	Dr. Rohit Bansal	JAIS	Annual Gas Forum	20.01.2023	Management Studies	New Delhi
10	Dr. Vipin Amoli	JAIS	Seminar Talk In Department Of Instrumentation	08-10.12.2022	Sciences & Humanities	Bengaluru
			Visit Raja Ramanna Center	29-01.04.2023		(Rrcat), Indore
11	Dr. Karan Malik	JAIS	Industrial Visit Lohum Industries	22.03.2023	Chemical Engineering & Biochemical Engineering	Greater Noida
12	Dr. Anirban Mukherjee	JAIS	Academic Visit Iit Kanpur	04-05.02.2023	Sciences & Humanities	Iit Kanpur
13	Dr. Piyush Sarkar	JAIS	Industrial Visit To (Irs), Ongc	11-16.12.2022	Petroleum Engineering & Geoengineering	Ahmedabad, Gujarat
14	Dr. Debashis Panda	JAIS	Green Hydrogen (Gh2) Summit 2022	08-09.09.2022	Sciences & Humanities	Delhi
			One-Day Industry-Academia Conclave Organised By Technology Mission Division (Energy, Water & Other) Of Dst, Govt. India	30.09.2022		New Delhi
			Activity Committee Meet (Acm) On Biofuels	20.03.2023		Num Aligarh Refinery Assam
15	Dr. Sekhar Gogai	AEI	Symposium & Workshop	21-24.11.2022		Iit, Guwahati
16	Dr. Satyajit Chowdhury	AEI	Mgl- Industrial Visit	24.03. 2023		Natural Gas Society (Ngs) Mumbai
17	Dr. Bhaskar Jyoti Medhi	AEI	Symposium On “Energy Transition – Concepts, Opportunities & Challenge” And Workshop On “Applied Statistical Modelling & Data Analytics	21–24.11. 2022		Iit Guwahati

Annual Report 2022-2023

Sl. No.	Persons who attended	Location	Course title	Duration	Section/ Department	Organization Where attended
18	Dr. Santosh Kumar Verma	AEI	"One Week One Lab" Program	22.03.2023		Csir-Neist
19	Dr. Nilambar Bariha	AEI	Mgl- Industrial Visit	23-25.03.2023		Mumbai
20	Dr. Abhimanyu Kar	AEI	"One Week One Lab" Program	22.03.2023		Csir-Neist
21	Dr. Hakeem Niyas. U. S	EIB	Industrial Visit "Mahanagar Gas Limited" (Mgl)	24.03. 2023		Mumbai

Conference

S. No.	Persons who attended	Location	Course Title	Duration	Section/ Department	Organization Where attended Organization
1	Dr. Shailesh Kumar	Jais	Human capital development conference	27-28.02.2023	Petroleum Engineering & Geoengineering	AHMEDABAD
2	Dr. Amit Kumar	Jais	Chemcon conference 2022	28.12.2022	Petroleum Engineering & Geoengineering	HBTU KANPUR
			"human capital development for energy transition" conference	27-28.02.2023		NEW DELHI
3	Dr. Alok Kumar	Jais	73rd annual meeting and symposium of the international committee for coal & organic petrology (iccp-2022) conference	18-25.09.2022	Petroleum Engineering & Geoengineering	NEW DELHI
			International conference "13th world petro coal congress-2023" and visit the csir	15-16.02.2023		NEW DELHI
4	Dr. Debashish Jena	Jais	25th som-2022 conference	16-18.12.2022	Management Studies	IIM INDORE
5	Dr. Daya Sagar Gupta	Jais	5th international conference rait-2022	03-05.03.2023	Computer Science & Engineering	IIT (ISM) DHANBAD
6	Dr. Koushik Guha Biswas	Jais	Chemcon-2022 conference	27-30.12. 2022	Chemical Engineering & Biochemical Engineering	HBTU, KANPUR
7	Dr. V. S. Sistla	Jais	"Agrochem Summit 2023" Conference	24.02. 2023	Chemical Engineering & Biochemical Engineering	NEW DELHI
8	Dr. Milan Kumar	Jais	Chemcon-2022 conference	27-31.12. 2022	Chemical Engineering & Biochemical Engineering	HBTU, KANPUR

Annual Report 2022–2023

S. No.	Persons who attended	Location	Course Title	Duration	Section/ Department	Organization Where attended Organization
9	Dr. Gunjan Kumar Agrahari	Jais	Chemcon-2022 conference	27-30.12.2022	Chemical Engineering & Biochemical Engineering	HBTU, KANPUR
			National conference under biomass mission	24.03. 2023		NEW DELHI
10	Dr. Rakesh Kumar	Jais	Conference chemcon 2022	28.12. 2022	Chemical Engineering & Biochemical Engineering	HBTU KANPUR
11	Dr. Hemant Kumar Singh	Jais	“human capital development for energy transition” conference	27- 28.02.2023	Petroleum Engineering & Geoengineering	NEW DELHI
12	Dr. Amarish Dubey	Jais	“device intelligence, computing and communication technology” (dicct - 2023) international conference	17–18.03.2023	Electrical And Electronics Engineering	GRAPHIC ERA UNIVERSITY, DEHRADUN
13	Dr. Rohit Bansal		Wpt & wos – 2022 conference	07-08.12. 2022	Management Studies	VIGYAN BHAWAN, NEW DELHI
			Sbm, conference 2023	23–25.03.2023		DOMS, IIT ROORKEE
14	Dr. Umaprasana Ojha	Jais	16th spsi-macro-2022 conference	02-04.11.2022	Sciences & Humanities	PUNE
15	Dr. Karan Malik	Jais	Human capital development for energy transition international conference	27-28.02.2023	Chemical Engineering & Biochemical Engineering	
16	Dr. Gobinda Rakshit	Jais	Cfart - 2023 conference ceat	21-25.02.2023	Mathematical Science	IIT, BOMBAY
17	Dr. Arshad Aijaz	Jais	Modern trend in inorganic chemistry (mitc)-xix 2022 conference	15- 17.12.2022	Sciences & Humanities	BANARAS HINDU UNIVERSITY
			Attending the 2nd rsc-cfos-2022 conference	01-04.12.2022		IIT ROORKEE, ROORKEE
			Emee-2023 conference	04- 05.03.2023		(IIT) ROORKEE
18	Dr. Debashis Panda	Jais	59th annual convention of chemists & rtcs-2022 conference organised by indian chemical society	16-18.12.2022	Sciences & Humanities	IIT (ISM) DHANBAD
19	Dr. Kavita Srivastava	Jais	“sustainable business management” conference	23 – 25.03.2023	Management Studies	DOMS, IIT ROORKEE
20	Dr. Bhaskar Jyoti Medhi	Aei	Research talk at 9th international and 49th national conference of (fmfp-2022)	14-16.12. 2022		IIT ROORKEE
21	Dr. Shikha Dwivedi	AEI	Icsm-2022 conference			ICSM, JAIPUR

Annual Report 2022–2023

S. No.	Persons who attended	Location	Course Title	Duration	Section/ Department	Organization Where attended Organization
22	Dr. Arun Kumar	AEI	“science for society environment and sustainability” (sses – 2022) conference	24-26.11.2022		CSIR- NORTH-EAST INSTITUTE OF SCIENCE AND (NEIST), JORHAT
23	Dr. Sabyasachi Pramanik	AEI	“science for society environment and sustainability” (sses – 2022 conference	24- 26-11-2022		(NEIST), JORHAT, ASSAM
24	Dr. M Chakkarapani	AEI	(ieee ias globconht 2023), conference	11 – 12.03. 2023		MALDIVES NATIONAL UNIVERSITY, MALE CITY (MALDIVES
25	Dr. Rupjit Saikia	AEI	“optimization, learning and analytics in business-2022” (olab-2022) international conference	15-17.12. 2022		HERITAGE INSTITUTE OF TECHNOLOGY, KOLKATA
			(ncams-2022) conference	22- 23.12. 2022		GAUHATI UNIVERSITY, GUWAHATI, ASSAM
			“mathematical sciences and applications” (icmsa-2023) international conference	24-26.03.2023		DR. BHIMRAO AMEDKAR UNIVERSITY, AGRA
26	Dr. Debasis de	EIB	(iccdc-2023) international conference	01-03.03. 2023		HALDIA, WEST BENGAL DURING
27	Dr. Hakeem niyas. U. S	EIB	(wesc-2022) conference	18–21.12.2022		Istanbul Meden Yet University, Istanbul, Turkey

Chapter 4

Administration

Staff Position

The Administrative Division of the Rajiv Gandhi Institute of Petroleum Technology (RGIPT) has been set up with the objective to assist Director in the day-to-day administrative and financial matters and ensure the compliance of various statutory obligations. This section is divided in Establishment, General Administration, Accounts and Audit sections comprising 10 nos of officers and staff members, supported by equal nos of outsourced staff. The Section-15(5) of RGIPT First Statute, 2009 states that the duty of the Registrar shall be-

- i. Custodian of the records, the common seal and such other property of the Institute as the Board of Governor may commit to his charge;
- ii. To issue notices convening meetings of the various authorities of the Institute of which he is the ex-officio Secretary as well as of any Committee appointed by these authorities;
- iii. To circulate agenda items, prepare minutes and circulate them after the approval of the Director.
- iv. To keep minutes of all meetings of the various authorities of the Institute of which he is the ex-officio Secretary as well as of any Committee appointed by these authorities;
- v. To conduct official correspondence on behalf of the authorities of the Institute;
- vi. To supply to the Central Government, copies of the agenda of meetings of the authorities of the Institute as soon as they are issued and thereafter the minutes of such meetings;
- vii. To represent the Institute in lawsuits or legal proceedings by or against the Institute, sign powers of attorney and verify pleadings or depute his representative for the purpose; etc.

The major functions of various sections of the Administrative Divisions are as follows:

1. **Establishment:** The establishment section primarily handles the assignments of recruitment of non-Teaching staff for RGIPT and its centres, their annual performance appraisal, confirmation and promotion. It also maintains the Service Books of each staff members and their annual updation, personnel

files, leave records, sanctioning of LTCs and other service matter. Further to that this section maintain the Reservation Roster Register, opening of NPS accounts of all employees of Institute and centres, issuance of bonafide certificates, fixation of pay, issue of periodical increment, deputation, resignation & retention/termination of lien, conduction of training programmes for employees, etc.

2. **General Administration:** The general administration of the Institute is responsible for organizing Institute's functions like Independence Day, Republic Day, Convocation, etc. This section also responsible to arrange meetings of General Council, Board of Governors, Finance Committee and Senate, preparation of agenda and minutes of the meeting, liaison with administrative ministry and supplying them desired information and reports as and when required. Further to that this section is nodal office for filing the Quarterly and Annual Return on application received and disposed off under RTI Act, 2005, public grievance, usage of Hindi in official work, report on the measures taken for the welfare for the candidates belong to SC, ST, OBC, EWS, Divyang, Ex-Servicemen, etc. This section is also responsible for all legal matters of the Institute, press and media relations, coordination with centres, procurement, outsourcing of manpower, contract management, physical verification of fixed assets, maintenance of asset and consumable registers, allotment of flat and other premise.

3. **Finance & Accounts:** The Finance Section is involved specially in the preparation of Annual Accounts & Balance Sheet, payments of statutory dues like NPS, GST, TDS, Professional Tax, etc with respective authorities and filing of monthly, quarterly and annual returns. They are also responsible for disbursement of monthly salaries of all employees of the Institute and its centres, issuing their salary slips and Form-16, reimbursement of personal claims of employees and bill payment to vendors and other service providers on the recommendation of Internal Audit. Further to that Finance & Account Section is also responsible for establishing the Letter of Credit for import of equipment, budgeting, PFMS operation, generation of fees receipts, maintenance of imprest, investment of funds, coordination with C&AG team during annual accounts audit, etc.

4. Internal Audit: The internal audit is a very crucial section of the Institute to ensure the check and balance on entire financial transactions and report it to the Competent Authority after the review of systems, transactions, sanctions, operations and internal control to enable him to take corrective measures. The scope of work of internal audit includes Contract Management, Treasury & cash management, Stores & inventory, Estate management, Personal claims, Procurement, etc of RGIPT Jais and its AEI Sivasagar and EIB, Bengaluru centres. This section is responsible for the certification of all personal claims of employees and bills of vendors and service providers before payment, auditing of all procurement proposals of the Institute and its centres. It also conducts half-yearly Internal Audit and submit report to the Director and is nodal agency for transaction audit by the C&AG.

Strength of Non-Teaching Staff

Sl. No.	Category of Staff	Total Nos	UR	SC	ST	OBC	PH
RGIPT, Jais, Amethi							
1	Group-A	8	5	0	0	3	
2	Group-B	16	12	0	0	4	
3	Group-C	18	11	2	0	5	2 (UR)
4	Total	42	28	2	0	12	
Assam Energy Institute (AEI), Sivasagar							
1	Group-A	0	0	0	0	0	
2	Group-B	5	4	0	0	1	
3	Group-C	5	2	0	0	3	
	Total	10	6	0	0	4	

Name of these Staff Members are

Sl. No.	Name of Staff	Designation
RGIPT, Jais, Amethi		
1	Jitendra Prasad	Joint Registrar
2	Sameer Ranjan Singh (on deputation)	Deputy Registrar
3	Harish Kumar Yadav	Executive Engineer (Civil)
4	Sudhir Arora	Assistant Registrar
5	Anil Kumar Verma	Assistant System Officer
6	Arun Kumar Singh	Assistant Registrar (Sr. Scale)
7	Rakesh Singh	Assistant Registrar (Sr. Scale)

Sl. No.	Name of Staff	Designation
8	Krishna Kant	Assistant Registrar
9	Deepak Asthana	Technical Superintendent (Grade-II)
10	Shweta Negi (on deputation)	Superintendent (Grade-II)
11	Dharmendra Pratap Singh	Physical Training Instructor
12	Madhu Priya	Superintendent (Grade-II)
13	Umesh Kumar Sharma	Superintendent (Grade-II)
14	Tej Prakash Joshi	Superintendent (Grade-II)
15	Ankit Mohan	Superintendent (Grade-I)
16	Lokesh Bhatnagar	System Superintendent (Grade-II)
17	Md. Iltaf Zafar	Technical Superintendent (Grade-III)
18	Arun Kumar Singh	Technical Superintendent (Grade-II)
19	Birjesh Pratap Singh	Assistant Engineer (Civil)
20	Utkarsh	Assistant Engineer (Electrical)
21	Rajesh Kumar Vishwakarma	Assistant Security Officer (Grade-I)
22	Arvind Kumar Yadav	Superintendent (Grade-I)
23	Ankit Pachouri	System Superintendent (Grade-I)
24	Zahoor Alam	Technical Superintendent (Grade-I)
25	Ashwini Kumar Choudhary	Assistant System (Grade-III)
26	Vivek Singh (on deputation)	Assistant (Grade-III)
27	Yogesh Sharma	Assistant (Grade-III)
28	Amit Kumar Bajpai	Assistant (Grade-III)
29	Preeti Singh	Assistant (Grade-III)
30	Umesh Kumar Sharma	Assistant (Grade-III)
31	Govind Kumar Tiwari	Library & Info Assistant (Grade-III)
32	Krishna Kumar Sonkar	Library & Info Assistant (Grade-III)
33	Pradeep Kumar Verma	Library & Info Assistant (Grade-III)
34	Ravi Dwivedi	Assistant (Grade-I)
35	Amit Kumar Srivastav	Assistant (Grade-I)

Annual Report 2022-2023

Sl. No.	Name of Staff	Designation
36	Shashi Mishra	Assistant (Grade-I)
37	Gaurav Singh Gaharwar	Technician (Grade-I)
38	Ekta Choudhary	Assistant (Grade-I)
39	Rahul Singh	Assistant (Grade-I)
40	Neha Pandey	Assistant (Grade-I)
41	Trivikram	Technician (Grade-I)
42	Brijesh Kumar Varma	Technician (Grade-I)
Assam Energy Institute (AEI), Sivasagar		
1	Suramoni Borthakur	Technical Superintendent (Grade-I)
2	Saugato Dey	Technical Superintendent (Grade-I)
3	Saurav Jyoti Bharali	Technical Superintendent (Grade-I)
4	Aghna Tiyas Mandal	Superintendent (Grade-I)
5	Pradyumna Phukan	Superintendent (Grade-I)
6	Parishmita Sharma Baruah	Assistant (Grade-I)
7	Pulakesh Kumar	Assistant (Grade-I)
8	Kaushik Das	Assistant (Grade-I)
9	Tapan Jyoti Gogoi	Technician (Grade-I)
10	Sumeer Kumar Saikia	Technician (Grade-I)

Meeting of the Statutory Bodies

The meeting of the statutory bodies like General Council, Board of Governors, Finance Committee and Senate during the Financial Year 2022-23 held as per provisions as mentioned in the First Statute of the Institute. The details of the concluded meeting are as under:

Statutory Bodies	Nos. of Meetings Held	Meeting Dates
General Council	01	a. October 17, 2022
Board of Governors	04	a. May 07, 2022 b. July 12, 2022 c. September 30, 2022 d. December 10, 2022
Finance Committee	04	a. May 06, 2022 b. July 12, 2022 c. September 30, 2022 d. December 10, 2022
Senate	04	a. May 06, 2022 b. November 04, 2022 c. November 28, 2022 d. March 06, 2023

Chapter 5

Department of Chemical Engineering & Biochemical Engineering

Year of Establishment: 2009

Head: Dr Milan Kumar, Associate Professor

The Department

Conventionally, Chemical Engineering is the stream of engineering that aims to engineer chemical transformation of raw materials to useful products in economic and self-sustainable manner. Aligned with the mandate and vision with which the RGIPT has been established, the Department of Chemical Engineering and Biochemical Engineering (CEBE) at the RGIPT aims to train and produce experts with strong technical background and social commitment who will help the nation in meeting its energy demand in coming future. The Department of CEBE, one of the unique departments in the country, manages activities, facilities, and curricula related to those Chemical Engineering fields supporting oil and gas sector in particular and energy sector in general, and enjoys a direct and synergistic interface with the industries in these sectors.

The Department of CEBE offers the following flagship BTech programs to train and produce professionals in oil & gas and energy sector:

1. B Tech in Chemical Engineering
2. B Tech in Chemical Engineering with major in Renewable Energy Engg. (starting from 2022)

In addition to these, the Department also runs various MTech and PhD programs.

Our classroom teaching is focused towards enhancing the creativity and innovation. Being an institution with the domain area of oil, gas and energy, our curricula are markedly designed with a thrust on these particular areas.

The Department strongly encourages its faculty members and students to interface with the industry and seeks industrial participation and partnership in various activities.

The Department also organizes various student events, training programs and lecture series periodically, such as training program on 'Petroleum Refining Technology' for officers from refineries, Departmental Lecture

Series, modular courses, and interactive sessions with industry experts and alumni. In addition, lecture series by Student Chapters of American Institute of Chemical Engineers (AIChE) and Indian Institute of Chemical Engineers (IICChE) are also organized periodically.

Major areas of Research

The research in the Department is centered on areas such as green hydrogen generation from water splitting, photocatalytic water splitting for hydrogen generation, CO₂ capture and conversion to chemicals, storage of hydrogen and ammonia gases, development of corrosion inhibitors for oil and gas sectors, desulfurization of petroleum products, vanadium redox flow battery, fuel cells, pyrolysis, microfluidics, biofuel, adsorption, nanomaterials, bioremediation and materials science.

Infrastructure

S. No.	Particulars	Number
1	No. of Classrooms	08
2	No. of Lecture Halls	
3	No. of Laboratory	12
4	No. of Computers available for students in the Department	35

Unique Achievement / Preposition of the Department/Centre

- Mr. Kamal Nayan received Ph.D. offer from University of Toronto Canada.
- Mr. Alok Kumar & Mr. Karan Kumar Paswan received Ph.D. offer from University of Houston USA.
- Mr. Sree Abey Vignesh received Ph.D. offer from University of Oklahoma USA.
- Mr Dev Raj, a 4th-year chemical engineering student, stood second in the UG category in the All India New Generation Ideation Contest 2022 organised by HPCL.
- Mr. Devrat Kapil, Student, Department of Chemical Engineering and Biochemical Engineering has been awarded the Bank of Baroda Achievers Award 2023

under “Best in all-rounder”. The award includes prize money of Rs. 31000/-.

- Mr. Ajeet Prajapati (20CE0002) won 3rd prize in oral session in SCHEMCON 2022 organised by NIT Warangal, Telangana, 23-24 September 2022.
- Mr. Amit Gomey (20CE0003) won 2nd Prize in International Conference organised by Motilal Nehru National Institute of Technology Allahabad, Prayagraj and School of Chemical Engineering University Sains Malaysia, Pinang, 14-16 April, 2022
- Mr. Anshu Pandey (20CE3006) received Donald F. Othmer second year student academic excellence award (2022-23) by international body of AIChE (New York, USA), December 2022.
- Mr Dhruv Mishra (20CE3010) received First year recognition award (2022-23) by international body of AIChE (New York, USA), January 2023
- Mr. Pranjal Maheshwari (EChE18-061), Chemical Engineering student, won Institute's Gold Medal and President's Gold Medal at RGIPT.
- Dr. Deepak Dwivedi is invited for guest editing a special issue for Nature Scientific Reports (Nature) (IF: 5.134)

Academic Programmes Offered

New Courses Introduced

Modular Course on

- Controlling the Quality of Product: Analytics, Modelling Simulation and
- Optimization of Manufacturing Process-CH383M)

B. Tech Minor Programs in Chemical Engineering for undergraduate students of other stream such as Computer science & Engineering, Information Technology, Electronics Engineering, and Mathematics & Computing.

B. Tech in Chemical Engineering / B. Tech in Chemical Engineering with Major in Renewable Energy Engineering

Subjects are as follows:

S. No.	Course Code	Course Name	Course Credit
B. Tech 1st Year			
1	CH161	Engineering Thermodynamics	11
2	CH121	Fluid Mechanics	11
3	CH111/ CH112	Chemical Engineering Practices/ Renewable Engineering Practices	5

S. No.	Course Code	Course Name	Course Credit
B. Tech 2nd Year			
1	CH262	Chemical Engineering Thermodynamics	11
2	CH222	Fluid Flow Operations	8
3	CH171	Mass Energy Balance	8
4	CH223	Solid Fluid Mechanics And Mechanical Operations	8
5	CH223L	Fluid Flow & Mechanical Operation Lab	2
6	MS211	Materials Science	9
7	CH191	Fundamental of polymer & Petrochemical	6
8	CH281	Petroleum Refining Engineering	9
10	CH231	Heat Transfer Operations	13
11	CH251	Chemical Reaction Engineering –I	8
B. Tech 3rd Year			
1	CH274	Mass Transfer Operations -1	13
2	CH352	Chemical Reaction Engineering -2	8
3	CH301	Process Instrumentation	6
4	CH381	Lube Base oil & Wax Processing	9
5	CH302	Biomass & Biofuels Engineering	6
6	CH392	Chemical Process technology	9
7	CH342	Process Dynamics and control	13
8	CH375	Mass Transfer Operation -2	6
9	CH312	Equipment Design	11
10	CH401	Transport Phenomenon	6
11	CH204	Chemical Engineering Software lab	2
12	CH419	B-Tech. Project	10
13	CH393	Refinery Process Design	9
14	CH551	Electrochemical Process and Energy System	9
B. Tech 4th Year			
1	CH413	Plant Design	11
2	CH376	Mass Transfer operation-III	9
3	CH543	Fluidization Engineering	9
4	CH591	Petrochemical Engineering	9
5	CH504	Hydrogen Energy	9
6	CH405	Biochemical Engineering	6
7	CH420	B-Tech Project	10
8	CH402	Industrial Pollution and Control	8
9	CH443	Modelling Simulation optimization	9
10	CH443L	Modelling Simulation optimization Lab	2
11	CH481	Natural Gas Processing	9
12	CH491	Polymer Composites	9
13	CH451	Electrochemical process and energy system	9

Annual Report 2022–2023

Students on Roll

S. No.	Programme	I Year (2022-23)	II Year	III Year	IV Year
1.	B. Tech	51 8 (major in Renewable Energy Engineering)	12	18	64
2.	Ph. D (Under Institute Fellowship)	05	02	07	02

Names of students/scholars who attended conferences/workshops/seminars and symposia abroad or in India

S. No.	Name of Student	Roll No.	Conference/ Seminar / Symposia/ Workshop	Date & Venue	Financial Assistance From
INDIA					
1	Mr. Anil Verma	PMS19001	CHEMCON-2022	2022, December 27-30). HBTU Kanpur	Institute Grant
2	Mr. Rohit Singh	20CE0010	SCHEMCON-2022	23rd-24th September 2022, NIT Warangal	Institute Grant
3	Ms. Swati Chaudhary	22CE0007	CHEMCON-2022	(2022, December 27-30), HBTU Kanpur	Institute Grant
4	Mr. Siddharth Atal	22CE0008	CHEMCON-2022	(2022, December 27-30). HBTU Kanpur	Institute Grant
5	Mr. Saurabh Kumar	22CE0006	CHEMCON-2022,	(2022, December 27-30). HBTU Kanpur	Institute Grant
6	Mr. Washim	22CE0009	CHEMCON-2022,	(2022, December 27-30, HBTU Kanpur	Institute Grant
7	Mr. Sujeet Kumar Pandey	20CE0010	CHEMCON-2022	(2022, December 27-30, HBTU Kanpur	Institute Grant
8	Mr. Aash Mohammad	20CE0001	CHEMCON-2022	(2022, December 27-30, HBTU Kanpur	Institute Grant
9	Mr. Yogendra Yadawa	PMS19002	1. 2022 MRS Spring Meeting & Exhibit (Oral) online 2. International Conference on Frontiers in Materials Engineering (ICFME-2022) 3. CHEMCON-2022	1. May 23 2022, Honolulu, Hawai'i, USA 2. December 14 -16 December 2022, IIT Indore 3. December 27-30 Kanpur 2022, HBTU Kanpur	Institute Grant
10	Mr. Niyamat Ullah Khan	20CE0008	CHEMCON-2022	2022, December 27-30, HBTU Kanpur	Institute Grant
11	Mr. Ajeet Prajapati	20CE0002	1. SEFCO-2022, 2. SCHEMCON-2022 3. CHEMCON-2022	1. 26th–27th August 2022, CSIR-IIP, Dehradun, Uttarakhand, India 2. 23rd-24th September 2022, NIT-Warangal, Telangana, India 3. (2022, December 27-30, HBTU Kanpur	Institute Grant
12	Mr. Amit Gomey	20CE0003	1. Research Related Solutions for Faculty and Research Scholars 2. Optimization in Oil & Gas and Chemical Industry 3. Characterization Technique of Material and Devices 4. Application of Optimization Techniques in Engineering (AOTE) 5. International Conference on “Technological Interventions for Sustainability (Chem-Conflux22)	1. January, 1st 2022 to February, 4th 2022, RGIPT, Jais 2. February, 7th to February, 11th 2022, RGIPT, Jais 3. March, 14th to March, 15th 2022, CSIR - National Physical Laboratory, New Delhi 4. March, 28th to April, 1st 2022, Zakir Husain College of Engg. And Technology Aligarh Muslim University, Aligarh	Institute Grant

Annual Report 2022-2023

S. No.	Name of Student	Roll No.	Conference/ Seminar / Symposia/ Workshop	Date & Venue	Financial Assistance From
			6. International Conference on "Sustainability in chemical processes through Digitalization, Artificial Intelligence and Green Chemistry" (ChemCon22) (Online) 7. Introduction to Data Analysis using Microsoft Excel 8. Introduction to AI for managers 9. International Conference on "Sustainability in chemical processes through Digitalization, Artificial Intelligence and Green Chemistry" (ChemCon22)	5. April 14th to 16th, 2022, Motilal Nehru National Institute of Technology Allahabad, Prayagraj and School of Chemical Engineering University Sains Malaysia, Pinang 6. December 27th to December 30th, 2022, (Thailand) online 7. August 23rd, 2022, Coursera (Online Website) 8. September 22nd, 2022, Cloudx Lab (IIT Roorkee) 9. December 27th to December 30th, 2022, Indian Institute of Chemical Engineers, Kanpur	
13	Ms. Shikha Sharma	22CE0012	1. CHEMCON-2022, HBTU Kanpur 2. International Symposium, School of Energy Technology, PDEU, Gujarat	1. (2022, December 27-30 Kanpur 2. 2023, May 19-20 May, Ahmedabad, Gujarat	Institute Grant

Names of students/scholars who got prizes and awards outside the Institute

S. No.	Name of Student	Roll No.	Name of Prize	Date & Venue	Prize awarded by
1	Mr. Ajeet Prajapati	20CE0002	3rd prize in oral session in SCHEMCON 2022	23-24 September 2022, NIT Warangal, Telangana	Organiser Secretary
2	Mr. Amit Gomey	20CE0003	2nd Prize in International Conference	April 14th to 16th, 2022, Prayagraj	Motilal Nehru National Institute of Technology Allahabad, Prayagraj and School of Chemical Engineering University Sains Malaysia, Pinang
3	Mr. Anshu Pandey	20CE3006	Donald F. Othmer second year student academic excellence award (2022-23)	December 2022	international body of AIChE (New York, USA)
4	Mr. Dhruv Mishra	20CE3010	First year recognition award (2022-23)	January 2023	international body of AIChE (New York, USA)

Names of scholars/students who won Convocation/Institute Day prizes

S. No.	Name of Student	Roll No.	Name of Prize	Date & Venue
1	Mr. Pranjal Maheshwari	EChE18-061	Institute's Gold Medal	RGIT
2	Mr. Pranjal Maheshwari	EChE18-061	President's Gold Medal	RGIT

Faculty & their Activity

Faculty and their areas of specialisation

S. No.	Name, Qualifications, Employee No.	PhD Awarded on	Major Areas of Specialization (Max. 3 Areas)
PROFESSORS			
1	Prof. A.S.K. Sinha, Director	1990	Heterogeneous Catalysis for photocatalysis, hydrocarbons generation and bio-fuel production; Production, storage and uses of hydrogen; Process intensification
2	Prof. Amit Ranjan, Employee No.:0045	2007	Polymeric Nanostructures, Oxide Semiconductor Nanoparticles, Composite Materials, Fracture in Soft Materials, Complex Fluids
3	Prof. M. S. Balathanigaimani, Employee No.:0012	2009	Adsorbed Natural Gas, Hydrogen storage by Adsorption, Adsorptive Desulfurization

Annual Report 2022–2023

S. No.	Name, Qualifications, Employee No.	PhD Awarded on	Major Areas of Specialization (Max. 3 Areas)
ASSOCIATE PROFESSORS			
1	Dr. Rakesh Kumar. Employee No.:0046	2011	Process Modeling & Simulation, CO ₂ Capture Using Ionic Liquids/Deep Eutectic Solvents, Advanced Separation Processes, Biodiesel Production
2	Dr. Milan Kumar Employee No.:0117	2011	Redox flow battery Electrolyser Fuel cell
ASSISTANT PROFESSORS			
1	Dr Koushik Guha Biswas, Employee No.:0152	August 2015	Microfluidics, Multiphase Flow, Biofuels
2	Dr V S Sistla Employee No.:0098	31 July 2012	Crystallization, Industrial Catalysis
3	Dr Gunjan Kumar Agrahari, Employee No.: 0157	July 2013	Biofuel Production from waste, Membrane Separation, Microbial fuel cell
4	Dr Deepak Dwivedi Employee No.:0237	2020	Corrosion Science and Engineering, Surface Science and Engineering, Adsorption to minerals and fluid-mineral interaction
5	Dr Shweta, Employee No.:0234	2017	Rheology of complex fluids Phase behavior of colloidal systems Interfacial rheology of crude oil-water interfaces
6	Dr Vivek Kumar Employee No.:0231	2019	Economic and 'Smart' Control Structure Design, Design-Controllability Interaction in Integrated Chemical Processes Modelling, Simulation and Control of Chemical Systems
7	Dr Karan Malik Employee No.:0263	2021	Electrochemical Reduction of Carbon Dioxide Electrocatalysis Sodium Ion Batteries
8	Dr Supriya Pulipaka Employee No.:0275	2020	Batteries, Photoelectrochemical water splitting, Renewable energy
Visiting Faculty			
1	Dr Arvind Singh Employee No.: NA	2018	Heterogeneous Catalysis & Photocatalysis, Bio-fuels & Biomaterials, Bioremediation
Adjunct Faculty			
1.	Dr R P Verma	Ex-Executive Director & Head (R&D), Indian Oil Corporation Limited	
2.	Dr K D P Nigam	Ex. Professor, IIT Delhi	
3.	Mr Ashish Nag	Ex. Executive Director, Indian Oil Corporation Limited	
4.	Prof. S. N. Upadhyay	Ex Director, IIT BHU	
5.	Shri Prasad K Panicker	Director and Head, Refinery Operations Nayara Energy Limited	
6.	Prof. Hee Moon	Professor (Retd.), Chonnam National University, South Korea	

Technical and Non-Teaching Staff

Sl. No.	Name, Qualifications	Designation, Employee No.	Date of Appointment in the department
1.	Mr. Arun Kumar Singh	Technical Superintendent (Grade-II)	16th August 2019
2.	Mr. Umesh Kumar Sharma	Assistant (Grade III)	16th August 2019
3.	Mr. Anuj Srivastava	Assistant Grade I (on contract)	20th December 2019
4.	Mr. Mahesh Mourya	Attendant (on contract)	16th August 2019
5.	Mr. Sujeet Kumar	Attendant (on contract)	16th August 2022

Short-term courses/workshops/seminars/symposia/conferences organised by faculty members

S. No.	Coordinator	Title	Period
1	Dr. Deepak Dwivedi	Recent Advances in Oil and Gas Production Enhancement	14th to 18th February 2022
2	Dr. Deepak Dwivedi	Corrosion in petroleum refineries and petrochemical industries	16th to 20th January 2023
3	Dr. Deepak Dwivedi	Petroleum Refining Technology	18th to 22nd July 2022
4	Dr. Deepak Dwivedi	"Petroleum Refining Technology"	7th to 11th March 2022.
5	Dr. Rakesh Kumar	Workshop on the topic "Application of Aspen Simulation for Chemical Engineering Students" conducted by Guru Ghasidas Vishwavidyalaya (GGV) Bilaspur, Chhattisgarh, India	22nd to 26th August 2022
6	Dr. Karan Malik and Dr. Gunjan Kumar Agrahari	Training Program for the IOCL officials	26th to 30th June 2023
7	Dr. Karan Malik and Dr. Gunjan Kumar Agrahari	Training Program for the IOCL officials	03rd to 07th July 2023

Annual Report 2022–2023

Short-term courses/workshops/seminars/symposia/conferences/training programmes attended by faculty members in academic institutions and public sector undertakings

Sr. No.	Name of Faculty Member	Title	Period and Venue
Seminars/Symposia/Conferences			
1.	Dr. Koushik Guha Biswas	CHEMCON 2022 at HBTU Kanpur, India	December 27-30, 2022, HBTI, Kanpur
2.	Dr. Koushik Guha Biswas	Faculty Development Program SMRE (Scope for Multidisciplinary Research and Education)	(23.7.22 - 14.8.22), Online
3.	Dr. Koushik Guha Biswas	Multiphase Flow- Research and Applications (MFRA-2023)	11.03.2023 (Online)
4.	Dr. Milan Kumar	India Energy Week	February 6-8 2023, Bengaluru, India
5.	Dr. Milan Kumar	National e-Workshop on Innovation and Intellectual Property Rights (NeW IPR-2022)	June 13-18, 2022, Online
6.	Dr. Milan Kumar	Chemical Engineering Congress (CHEMCON 2022)	December 27-30, 2022, HBTI, Kanpur
7.	Dr. Milan Kumar	Hydrogen Valley in Kerala -Hydrogen Valley Platform in India	15th February 2023, Online
8.	Dr. Milan Kumar	International Platform on Hydrogen Economy and Industry-Academia Conclave	30th September 2022, New Delhi
9.	Dr. Rakesh Kumar	CHT-ACM on Bio-fuels: a better fuel for a cleaner future at Numaligarh refinery, Assam	20th March 2023
10.	Dr. Rakesh Kumar	Chaired a session on Wastewater Treatment in SCHEMCON-2022, at NIT Warangal, India	22nd –24th September 2022
11.	Dr. Rakesh Kumar	CHEMCON-22, at HBTU Kanpur, India	27th –31st December 2022
12.	Dr. Karan Malik	Conference on “Human Capital Development for Energy Transition”	27th February 2023
Meetings			
1.	Dr. Rakesh Kumar	Visited, Sardar Swaran Singh National Institute of Bioenergy (SSS NIBE), Kapurthala, Punjab, India.	12th September 2022

Special lectures delivered by faculty members in other institutions

S. No.	Name of Faculty	Topic of Lecture	Institution	Date
1	Dr. Rakesh Kumar	CO2 Capture using Deep Eutectic Solvents	Loyola Academy, Hyderabad, India	4th September 2022
2	Dr. Deepak Dwivedi	Modern Understanding on Adsorption using Advanced In-situ Techniques	The 4th Research and Innovation Conference at IMC-Oman	29th March 2022
3	Dr. Deepak Dwivedi	In-situ morphological and synergism characterization techniques for corrosion inhibitors used in upstream pipelines	Sathyabama Institute of Science and Technology and University of Technology Sydney, Australia	19th - 21th October, 2022

Honours and Awards

S. No.	Name of Faculty Member	Details of Award
1	Dr. Deepak Dwivedi	1. Awarded Senior Visiting Researcher Position (with full funding) at University of Cambridge, UK (2021-ongoing) , 2. Awarded Senior Visiting Researcher Position (with full funding) at University of Cambridge, UK (2021-ongoing), 3. Appointed as International Invited Member (Research), Dublin City College, Ireland (2021-ongoing), 4. Invited for guest editing a special issue for Nature Scientific Reports (Nature) (IF: 5.134)
2	Dr. Karan Malik	Distinction in Doctoral Research-2021 (awarded on August 2022), Department of Chemical Engineering, IIT Delhi

Fellowships of academic and professional societies

S. No.	Name of Faculty Member	Details of Award
1	Dr. Karan Malik	IITChE (life member)

Annual Report 2022–2023

Books, Monographs Authored/co-authored

S. No.	Name of Author/Co- Author	Title	Publisher
1.	Tahereh Jafary, Anteneh Mesfin Yeneneh, Jimoh Adewole, Asma Al Kharousi, Thirumalai Kumar, Dev Raj, Alok Kumar, Purna Tripathi, A.S.K. Sinha, Deepak Dwivedi	Current advances, challenges and prospects of CO ₂ capture, storage and utilization	Elsevier
2.	Dr. Deepak Dwivedi (Co- Author)	Corrosion Mitigation in Oil Reservoirs during CO ₂ Injection using Nanomaterials	Elsevier
3.	Deepak Dwivedi, Amit Ranjan, Jitendra S. Sangwai	Introduction to Functional Materials: Synthesis, Properties, Environmental Sustainability, and General Applications. Accepted in Edited book on “Functional materials for corrosion mitigation in oil and gas industry	CRC Press, accepted, in Press
4.	Ajeet Kumar Prajapati, Suraj Aryan, Sukriti Singh, Deepak Dwivedi, Nellya Serikova, Bijoy K. Purohit	Application of Functional Ceramics in Oil and Gas Industries: Properties and Current Status. Accepted in Edited book on “Functional materials for corrosion mitigation in oil and gas industry	CRC Press, accepted, in Press
5.	Ganesh Kumar, Yogendra Kumar, Jitendra S. Sangwai, Deepak Dwivedi	Application of Modern Functional Materials in Petroleum Exploration and Process Development. Accepted in Edited book on “Functional materials for corrosion mitigation in oil and gas industry	CRC Press, accepted, in Press
6.	Purna Tripathi, Yogendra Yadawa, Anshika Verma, Pranav Kumar, A.S.K. Sinha, Deepak Dwivedi, Anteneh Mesfin Yeneneh, Khadija Al-Balushi	Application of Self-Cleaning Materials in the Oil and Gas Industry. Accepted in Edited book on “Functional materials for corrosion mitigation in oil and gas industry	CRC Press, accepted, in Press
	Yogendra Kumar, Purna Yogeshwar, Ganesh Kumar, Jitendra S. Sangwai, Deepak Dwivedi	Microstructural and chemical characterization techniques of coatings: State of the arts. Accepted in Edited book on “Functional materials for corrosion mitigation in oil and gas industry	CRC Press, accepted, in Press
	Siddharth Atal, Deepak Dwivedi, Naveen Mani Tripathi	Corrosion under insulation (CUI) in Oil and Gas Industries. Accepted in Edited book on “Functional materials for corrosion mitigation in oil and gas industry”	CRC Press, accepted, in Press
	Ajeet Kumar Prajapati, Suraj Aryan, Sukriti Singh, Deepak Dwivedi, Nellya Serikova, Bijoy K. Purohit	Application of Functional Ceramics in Oil and Gas Industries: Manufacturing, Properties, and Current Status. Accepted in Edited book on “Functional materials for corrosion mitigation in oil and gas industry	CRC Press, accepted, in Press
	Deeksha Pathak, Deepak Dwivedi	Science and Engineering of Functional Coatings used in Energy Sectors. Accepted in “Functional Coatings: Innovations & Challenges	
	K.R. Chaturvedi, K.G. Biswas, T. Sharma	Retention nanoparticle in porous media: Implications for fluid flow	
	L. Das, A. Tripathi, K. G Biswas, K.D.P. Nigam	Plastic waste and wheat straw into biofuels and conversion of wastewater into agricultural use water (Accepted)	
	S. Poddar, K. Sahoo, U.S Behera, K.G. Biswas, K.D.P. Nigam	Conversion of waste materials and CO ₂ into useful products (Accepted)	
	S Kumar, N Nag, S Kumari, IJR Sarkar, Arvind Singh	Vanadium Redox Flow Batteries for Large-Scale Energy Storage	Recent Technologies for Waste to Clean Energy and its Utilization. Clean Energy Production Technologies. Springer, Singapore, In: DB Pal, (Ed.)
	S Kumar, Arvind Singh, R Kishor	Algal Biomass Production Coupled to Wastewater Treatment	Phycoremediation Processes in Industrial Wastewater Treatment (1st ed.). CRC Press, In: MP Shah (Ed.)

Annual Report 2022-2023

Editorial boards of journals\

S. No.	Name of Faculty Member	Position (Editor/ member)	Name of Journal
1	Dr. Deepak Dwivedi	Editorial board member	Loss Prevention in the Process Industries (Elsevier)
2	Dr. Deepak Dwivedi	Editorial board member	Nature Scientific Reports (Nature)
3	Dr. Deepak Dwivedi	Editorial board member	Corrosion Engineering, Science and Technology (Taylor and Francis)
4	Dr. Deepak Dwivedi	Editorial board member	Green Technology, Resilience, and Sustainability (Springer)

Design and Development Activities

New facilities added

S. No.	Details (Infrastructure, Equipment's, etc.)	Value (in Lakhs of Rupees)
1	High Pressure Stirred Reactor System	2,46,750
2	Process Controller for High pressure Reactor	2,89,100
3	Float Glass Fume Hood	1,49,980
4	Catalytic Reactor	95,000
5	Gas Chromatograph	6,43,335
6	3DGence Industry F350 3D Printer	44,55,000
7	UV - Visible	3,03,500
8	UV - Visible	3,03,500
9	Mass Flow Controller	97,000
10	Digital Ultrasonic Controller	1,06,200
11	Interfacial Rheology System	11,39,750
12	Plasma Treatment Setup	7,02,100
13	Gas Chromatograph	5,45,000
14	Mass Flow Controller	1,23,000

Research and Consultancy

Sponsored research projects

S. No.	Title	Period	Funding Agency	Amount (in lakhs of Rs.)	Coordinator
1	Readiness and interest of Indian Refineries for adopting AL/ML technology for operations	2022-23	Department of Scientific and Industrial Research (DSIR)	23.09	Dr. Milan Kumar, Dr. Kavita Srivastava, Mr. Nandan Mishra
2	Flue Gas Decarbonization Using Novel Green Solvents	March 2021 – February 2024	Council of Science and Technology (CST), UP, India	11.94	Dr. Rakesh Kumar(PI) Prof. MS Balathanigaimani(Co-PI)
3	Enhanced para xylene separation from xylene isomers by reverse osmosis based Membrane Assisted Crystallization	2019 & for two years, Completed in March 2023	Council of Scientific & Industrial Research	4.05	Dr.V.S. Sistla
4	Syngas formation from direct gas phase co-electrolysis of CO ₂ and H ₂ O at high current density using amine functionalized electrodes and elevated pressure	October 2022 (two years)	SERB-DST	25.68	Dr. Karan Malik

Industrial consultancy projects

Sponsored research projects

S. No.	Name of Faculty Member	Title	Industry	Amount (in lakhs of Rs.)
1.	Dr. Deepak Dwivedi	Consultancy and Advisory for Chhattisgarh Environment Conservation Board, Raipur 2022-23	Environment Conservation Board, Raipur	Per visit 50,000 and advisory: as per CECB norms and training 2.5 lakhs/ training
2.	Dr. Deepak Dwivedi	Pesticide Application Technologies for Circular Economy [from April 2023-September 2024 [(UTB/ GSR/2/2023(20))	by Universiti Teknologi Brunei	B\$8,000

Research Publications

S. No.		No.
1.	Total Number of Papers Published in Refereed International Journals	22
2.	Total Number of Papers Presented in National Conferences	13
3.	Total Number of Papers Presented in International Conferences	1

Refereed International Journals

1. Raj, D., Kumar, A., Singh, R. K., Bhadouria, A. S., Sinha, A. S. K., & Dwivedi, D. (2022). Application of Advanced Nuclear Analytical Techniques for the Electrocatalyst's Characterization: Paving the Path for Mechanistic Investigations. *Current Opinion in Electrochemistry*, 100958. (Corresponding author) [IF: 7.2]
2. Shah, U., Dwivedi, D., Hackett, M., Al-Salami, H., Utikar, R. P., Blanchard, C., ... & Johnson, S. K. (2021). Physicochemical characterisation of kafirins extracted from sorghum grain and dried distillers grain with solubles related to their biomaterial functionality. *Scientific Reports*, 11(1), 1-11. [IF: 5.134]
3. Mishra, Y. Nigam, K.D.P., Sinha, A. S. K., Dwivedi, D.* & Sangwai, J.* (2023). Functionalized Nanoparticles: Tailoring Properties through Surface Energetics and Coordination Chemistry for Advanced Biomedical Applications [Recently accepted in *RSC Nanoscale*] (IF: 8.3)
4. Nickel Nanoparticle-directed Flow Synthesis of Biodiesel from Waste Cooking Oil, R. Shukla, P. Jaiswal, A. Maharana, D. Panda, K.G. Biswas, *Waste and Biomass Valorization*, 2023 (In Press)
5. Non-Newtonian Nanofluids Mediated 15-fold Enhancement of Mass Transfer for Two- Phase Flow Systems in Microchannel, P. Jaiswal, R. Shukla, D. Panda, K.D.P Nigam, K.G. Biswas, *Chemical Engineering & Processing: Process Intensification*, 186 (2023) 109342.
6. Catalytic Deactivation and Regeneration of Nickel Microparticle in a Home-build Microchannel-coupled-Millireactor: Substrate-Specificity and Multiphase Flow Dependency, P. Jaiswal, P. Yogeshwar, K.G. Biswas, D. Panda, *ChemPhysChem*, 2023, e202300026, 1-11.
7. Covalently immobilized nickel nanoparticle reinforces augmentation of mass transfer in millichannel for two-phase flow systems, P. Jaiswal, Y. Kumar, K.D.P. Nigam, D. Panda, K.G. Biswas*, *Industrial & Engineering Chemistry Research*, 61 (2022) 3672-3684.
8. Sanjay Kumar Kar, Akhouri Sudhir Kumar Sinha, S. Harichandan, Rohit Bansal, M.S. Balathanigaimani, *Hydrogen Economy in India: A Status Review*, *WIREs Energy and Environment*, 12 (2023) e459.
9. 10.M.Sonker, S. K. Tiwary, N. Shreyash, S. Bajpai, M. Ray, S. K. Kar, M.S. Balathanigaimani, Ammonia as an alternative fuel for vehicular applications: Paving the way for adsorbed ammonia and direct ammonia fuel cells, *Journal of Cleaner Production*, 376 (2022) 133960.
10. S. Harichandan, Sanajy Kumar Kar, Rohit Bansal, S. K. Mishra, M.S. Balathanigaimani, M. Dash, *Energy transition research: A bibliometric mapping of current findings and direction for future research*, *Cleaner Production Letters*, 03 (2022) 100026.
11. Anwesh Kumar, Hannu-Pekka Komsa, D.P. Pathak, M.S. Balathanigaimani, Akhouri Sudhir Kumar Sinha, J. Karthikeyan, Origin of Enhanced Photocatalytic Activity in Direct Band Gap g-C₃N₄ Nanoribbons with Tunable Electronic Properties for Water-Splitting Reaction: A First-Principles Study, *The Journal of Physical Chemistry C*, 126 (2022) 19627.
12. K.J. Hwang, M.S. Balathanigaimani, Y.H. Choi, S.D. Yoon, W.G. Shim, Influence of Ultra-micropore Volume of Activated Carbons Prepared from Noble Mung Bean on the Adsorption Properties of CO₂, CH₄ and N₂, *New Journal of Chemistry*, 46 (2022) 17577
13. Divyam Jha, Pranjal Maheshwari, Yugank Singh, Mohd Belal Haider, Rakesh Kumar, M.S. Balathanigaimani, A comparative review of extractive desulfurization using designer solvents: Ionic liquids & deep eutectic solvents, *Journal of the Energy Institute*, 2023, 110, 101313
14. Akshay Jain, Bhaskor Jyoti Bora, Rakesh Kumar, Prabhakar Sharma, Hiranya Deka "Theoretical potential estimation and multi-objective optimization of water hyacinth (*Eichhornia Crassipes*) biodiesel powered diesel engine at variable injection timings" *Renewable Energy*, 2023, 206, 514–530
15. Akshay Jain, Bhaskor Jyoti Bora, Rakesh Kumar, Prabhakar Sharma, Balakrishnan Deepanraj, Kashif Irshad, Ch. Ravikiran "Application of hybrid Taguchi L16 and desirability for model prediction and optimization in assessment of the performance of a novel water hyacinth biodiesel run diesel engine" *Fuel*, 2023, 339, 127377
16. Himanshu Kesharwani, Mohd Belal Haider, Rakesh Kumar, Shivanjali Sharma "Performance evaluation of deep eutectic solvent for surfactant polymer flooding" *Journal of Molecular Liquids*, 2022, 362, 119734
17. A.Uttam, B. K.Purohit, Minh Tam Le, V.S. Sistla Disodium Phosphate Dodecahydrate Salt Hydrate-Based Approach for Thermal Energy Storage Systems *Journal of Technical Education Science*, volume 74, page 1-7, year 2023.
18. Comparative Studies of Co/SBA-15 Catalysts Synthesized with Different Silica Sources Including Coal Fly Ash for Fischer-Tropsch Synthesis
19. P.K. Gupta, V Kumar, S Maity, GK Gupta, S Datta, Arvind Singh, et al. *Chemistry Select* 8(11), 2023, e202204962.
20. Processing Induced Morphology Change in ZnO-TiO₂ Multilayer Thin Films and its Effect on Their Photocatalytic Activity Under Visible Light Irradiation Y Yadawa, S Singh, A Ranjan *Materials Science and Engineering B* 288, 116164 (2023)

21. Enhanced adsorption of methylene blue by mixed-phase bismuth ferrite prepared by non-aqueous sol-gel route S Singh, Y Yadawa, A Ranjan Journal of Environmental Chemical Engineering, 109229 (2022)
22. Altered phase behavior of the lauric acid-stearic acid binary mixtures in electrospun PVA-PDMS mats S Perween, A Ranjan Materials Advances 3, 2737-2748, (2022)

Refereed National Journal

Proceedings of International Conferences

1. 3-D micromodel for visualization & experimental analysis of flow behaviour, surface tension and polymer concentration on enhanced oil recovery, A. Tandon, F. Khan, R. Shukla, A. Saxena, S. Sharma, and K.G. Biswas, Offshore Technology Conference (OTC) -31352-MS, 2022.

Proceedings of National Conferences

1. Ajit Patel and Milan Kumar, Green hydrogen production using redox mediated electrolyser, CHEMCON 2022
2. Aash Mohammad and Milan Kumar, An energy efficient flow field for a scaled-up vanadium redox flow battery, CHEMCON 2022
3. Niyamat Ullah Khan and Milan Kumar, Study the design and fabrication of membrane-less electrolyzer for H₂ production, CHEMCON 2022
4. Shiwang Vats, Himanshu Bhansali and Milan Kumar, The modeling performance curve of a vanadium redox flow battery, CHEMCON 2022
5. Nanoparticles Aided Process Intensification for Liquid-Liquid Flow In Small Diameter Conduits, A. Kumar, A. Anand, P.N. Singh, K.G. Biswas, CHEMCON 2022.
6. Synthesis of toluene and gallic acid with N,N-Dimethylmethanamide (DMF) through helical coil flow inventor(CFI) in heating environment, A. Tripathi, S. Pal, K.G. Biswas, D. Panda, CHEMCON 2022
7. Nanomaterials augmented hydrodynamics of liquid-liquid flow in milli-channels, P.N. Singh, A. Tripathi, D. Panda, K.G. Biswas, CHEMCON 2022.

Most cited articles published in last five years

1. Pranjal Maheshwari, Mohd Belal Haider, Mohammad Yusuf, Jiří Jaromír Klemes, Awais Bokhari, Mukarram Beg, Amani Al-Othman, Rakesh Kumar, Amit K Jaiswal, "A review on latest trends in cleaner biodiesel production: Role of feedstock, production methods, and catalysts" Journal of Cleaner Production, Volume 355, 2022, 131588. <https://doi.org/10.1016/j.jclepro.2022.131588>

Description: The rising world population and its corresponding energy demands pose a considerable burden on natural energy sources. The exploitation of fossil fuels at such an alarming rate blurs the goals of sustainable development and controlling global warming as pledged during the Paris Agreement. Due to the detrimental effects of exhausts from conventional diesel fuel on the environment, biodiesel has earned significant importance during the last decade. Biodiesel is produced from different feedstocks such as neem oil, palm oil, waste frying oil, vegetable oil, animal fat, microbial oil, etc. These feedstocks react with acidic, alkaline, enzymic, homogeneous, heterogeneous, and hybrid Deep Eutectic Solvents (DES) catalysts, along with monohydric alcohol via transesterification reaction. The flexibility in its feedstock and the type of catalysts used, production cost, biodegradable and renewable nature makes it a promising alternative fuel than conventional diesel. The selection of apt feedstock and catalyst is the challenging task and governing factor of economic biodiesel production. Green solvents such as DES have high thermal stability and low volatility and can address the economic and green production issues significantly as compared to conventional alkali and acid catalysts. This review bridges the gap between the selection of feedstock and optimal catalyst for the respective feedstock. The exploration of DES fills the gap by attributing to 3Rs (i.e., recyclability, recovery, and reusability). This review highlights the contemporary trends and prospects in the selection of the feedstocks, synthesis routes, and catalysts for the transesterification reactions for biodiesel production.

2. Somendra Singh, S. Perween, Amit Ranjan, "Dramatic enhancement in adsorption of congo red dye in polymer-nanoparticle composite of polyaniline-zinc titanate" Journal of Environmental Chemical Engineering, Volume 9, Issue 3, 2021, 105149. <https://doi.org/10.1016/j.jece.2021.105149>.

Description: In this paper, they report a dramatic enhancement in the adsorptive removal of Congo Red (CR) dye by polyaniline-zinc titanate (PANI/ZTO) nanocomposite as compared with that when PANI or ZTO are used separately. The dye exhibited little adsorption in the presence of lab-synthesized pristine ZnTiO₃ (ZTO) powder as adsorbent and somewhat moderate adsorption in the presence of neat polyaniline whereas excellent and much faster adsorption was exhibited in the presence of PANI/ZTO nanocomposite. The composite was prepared by carrying out the polymerization of aniline in the presence of ZTO suspensions. The composite samples were characterized using X-Ray diffraction,

FT-IR Spectroscopy, Field emission scanning electron microscopy, X-ray photoelectron spectroscopy, and Dynamic light spectroscopy, and the adsorption kinetics were studied using UV–Vis spectroscopy. The characterization data suggest that the adsorption of the CR dye gets enhanced because PANI chain molecules which are chiefly responsible for adsorption through hydrogen bonding and π – π interactions with the dye, get adsorbed/tethered on to the ZTO nanoparticles, and thereby overcome the mass transfer limitation by being better exposed to the dye molecules. The kinetics of adsorption followed the pseudo-second-order rate equation and the rate of adsorption was controlled by intra-particles diffusion. The isotherm was best described by the Langmuir model and the maximum adsorption was calculated to be 64.51 mg/g. The value of 7.80 kJ/mole obtained from the Dubinin–Radushkevich (D–R) model suggested the physisorption of CR onto PANI/ZTO nanocomposite. These results suggest that the mass of a polymeric substance, in general, can be better utilized for adsorption by suitably dispersing them over the surface of appropriate support nanoparticles.

3. Mohd Belal Haider, Rakesh Kumar, “Solubility of CO₂ and CH₄ in sterically hindered amine-based deep eutectic solvents”, *Separation and Purification Technology*, Volume 248, 2020, 117055. <https://doi.org/10.1016/j.seppur.2020.117055>

Description: Decarbonization of methane is essential in many applications such as biogas and natural gas. Solvents with high selectivity towards CO₂ are required for the upgradation of biogas and natural gas. Deep eutectic solvents (DESs) sharing green properties of ionic liquids have shown the ability to capture CO₂ selectively. In this work, they have synthesized four novel secondary amine-based DESs using quaternary ammonium salt as hydrogen bond acceptor. The CO₂ and CH₄ uptake of the synthesized DESs were experimentally investigated. The viscosities of DESs were also evaluated and correlated with the Vogel-Fulcher-Tammann (VFT) and the Arrhenius equation. The modified Lydersen-Joback-Reid method was used for the critical properties estimation of synthesized DESs. All the synthesized DESs have shown high CO₂ absorption and relatively very low CH₄ absorption indicating their high selectivity towards CO₂. The experimental DES-CO₂ and DES-CH₄ vapor–liquid equilibria were successfully correlated with the NRTL model and Peng-Robinson equation of state.

4. Divyam Jha, Mohd Belal Haider, Rakesh Kumar, Marriyappan Sivagnanam Balathanigaimani, “Extractive desulfurization of fuels using diglycol based deep

eutectic solvents”, *Journal of Environmental Chemical Engineering*, Volume 8, Issue 5, 2020, 104182. <https://doi.org/10.1016/j.jece.2020.104182>

Description: In this work, the effect of Deep Eutectic Solvents (DESs) on sulfur extraction of organo-sulfur compounds was investigated. Different DESs were prepared using a common hydrogen bond donor, Diglycol, and different hydrogen bond acceptors. The effects of experiment variables such as temperature, DESs/feed ratio, and the time on desulfurization efficiency of different organo-sulfur compounds were also studied. Results show that Tetra butyl ammonium bromide based DES showed relatively higher sulfur removal capabilities (Dibenzothiophene (DBT): –92 %, 2- Methylthiophene (2-MT): –86 % and Thiophene (T): –71 %) as compared to other DESs. Also, all DESs have higher DBT extraction efficiency followed by 2-MT and T. Further, non-random two liquids (NRTL) thermodynamic model was employed to model liquid-liquid equilibrium.

5. Shama Perween, Nitu Kumari Thakur, Mukarram Beg, Shivanjali Sharma, Amit Ranjan, “Enhancing the properties of water based drilling fluid using bismuth ferrite nanoparticles”, *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, Volume 561, 2019, Pages 165-177. <https://doi.org/10.1016/j.colsurfa.2018.10.060>

Description: Drilling fluids are characterized by rheological and filtration characteristics and control of these properties is critical to the success of drilling operation. Among the popular additives for the control of these properties, nanoparticles are emerging to be one of the best additives for drilling fluids. For water based muds, rheology and filtration loss is generally controlled by polymers and it can also be improved by addition of small amounts of nanoparticles. In this paper, they have synthesized a BiFeO₃ (BFO) nanoparticle by non-aqueous wet chemical techniques and used as additive for water based mud along with bentonite and other polymeric additives. BFO nanoparticles showed good compatibility with clay resulting in improved mud properties. Interaction of nanoparticles with clay and polymers resulted in enhanced apparent viscosity (AV), plastic viscosity (PV), yield point (YP), and API fluid loss. It was found that increasing the nanoparticle concentration from zero to 0.30 w/v% resulted in 25% increase in AV, PV and YP whereas a 35% decrease in API filtrate loss was observed at 20°C before hot rolling. Even after hot rolling at 110°C, these properties were not degraded significantly as was the case with mud without nanoparticles. Nanoparticles combined with bentonite platelets imparted good thermal stability to the drilling fluid.

High Pressure Sorption Analyser



Specifications:

1. Measurement Capabilities:
 - a. PCT (Pressure Composition Isotherms), Gas Sorption Kinetics, Heat-of-Formation, Cycle-Life Kinetics, Cycle-Life PCT, and Volume Calibration.
2. Hardware Capabilities:
 - a. Pressure Regulator: The instrument uses an internal PID controlled pressure regulator that operates to pressures up to 200 bar.
 - b. Gas Sorption: Can perform adsorption/absorption on Argon, Carbon Dioxide, Hydrogen, Nitrogen, Helium, Methane etc.
 - c. Temperature range: upto 450°C.
 - d. Gas Handling: For safety and better sealing, all valves and the pressure regulator are pneumatically controlled.

Industry 3D printer Model No- F350



Specification of 3D printer Model No- F350

Dual extruder 3D printer designed for industrial applications where accuracy, speed, comfort, and safety of the entire 3D printing process are crucial.

- This 3D printer is suitable for working with a wide range of technical materials including the high-performance thermoplastics.
- Print high-performance and engineering grade materials on one machine.
- The possibility of using three different modules in one 3D printer allows to produce repeatable models from the widest range of filaments.
- Printing modules are interchangeable between F350 and F420 INDUSTRY line 3D printers.
- Current materials portfolio – PEEK, PA6, PA-CF, PC, ABS, ASA, and PLA.
- Print technology - Fused Filament Fabrication (FFF).
- Build volume - 340 x 340 x 350 mm (13.39 X 13.39 X 13.78 inch).
- Minimum layer height - 50 μ m.
- Number of printheads - 2, printhead purging system.
- Filament diameter - 1.75 mm.
- Printhead temperature - 500 °C.
- Build plate temperature – 160 °C.
- Chamber temperature - 140 °C (active heating).
- Filament chamber temperature - 50 °C.

Rheometer Anton Paar (MCR 302e)



Specifications:

- Torque range from 0.5 nNm to 230 mNm
- Active thermal management of motor and bearing for long-term measurements even at high torques
- Sample-adaptive controllers (TruStrain™, TruRate™) included
- More space for sample handling and exchange of accessories, full compatibility with CTD 100

Plasma Treatment Setup



Specifications:

- DC Power Supply
 - Model - WT2 Pulsed DC
 - Supply Voltage - 230VAC
 - Max Output Voltage - 1000V
 - Output Power - 1 KW
 - Output Frequency - 40 KHz
- Setra Gauge Measurement Range
 - Gauge Type- Capacitance
 - 10 Torr (Maximum)
 - 0.005 Torr (Minimum)
- Rotary
 - Model - DUO 10 M
 - Pumping speed - 10 m3/h
 - Rotation Speed - 1500 rpm
 - Ultimate Pressure (without Gas Ballast) - 5×10^{-3} mbar

Surface Area and Pore Size Distribution Analyzer Belsorp Max II



Measurement principle	Volumetric method + AFSM™
Adsorption gas	N ₂ , Ar, Kr, CO ₂ , H ₂ , O ₂ , CH ₄ , NH ₃ , butane, and other noncorrosive gases
Adsorption vapor	H ₂ O, MeOH, EtOH, C ₆ H ₆ , and other non-corrosive vapor
Number of measurements (High Accuracy mode)	Max. 3 ports simultaneously (2 ports in High Accuracy mode)
Measurement range (specific surface)	0.01 m ² /g and above (N ₂) 0.0005 m ² /g and above (Kr) (depending on sample density)
Pore size distribution (Diameter)	0.35 - 500 nm
Low pressure isotherm	p/p ₀ = 10 ⁻⁸ (N ₂ @77K, Ar @87K
Vapor adsorption	p/p ₀ = ~0.95 @40°C
High pressure gas sorption	900 kPa (Port 2)
Pressure transducer (1 MPa: 7500 Torr)	1 unit
Pressure transducer (133 kPa: 1000 Torr)	5 units
Pressure transducer (1.33 kPa: 10 Torr)	3 units
Pressure transducer (0.0133 kPa: 0.1 Torr)	2 units
Thermostatic air oven	50°C
Vacuum gage / pump	Turbo molecular pump + rotary pump
Measurement principle	Volumetric method + AFSM™
Adsorption gas	N ₂ , Ar, Kr, CO ₂ , H ₂ , O ₂ , CH ₄ , NH ₃ , butane, and other noncorrosive gases
Adsorption vapor	H ₂ O, MeOH, EtOH, C ₆ H ₆ , and other non-corrosive vapor
Number of measurements (High Accuracy mode)	Max. 3 ports simultaneously (2 ports in High Accuracy mode)
Measurement range (specific surface)	0.01 m ² /g and above (N ₂) 0.0005 m ² /g and above (Kr) (depending on sample density)
Pore size distribution (Diameter)	0.35 - 500 nm
Low pressure isotherm	p/p ₀ = 10 ⁻⁸ (N ₂ @77K, Ar @87K
Vapor adsorption	p/p ₀ = ~0.95 @40°C
High pressure gas sorption	900 kPa (Port 2)
Pressure transducer (1 MPa: 7500 Torr)	1 unit
Pressure transducer (133 kPa: 1000 Torr)	5 units

Pressure transducer (1.33 kPa: 10 Torr)	3 units
Pressure transducer (0.0133 kPa: 0.1 Torr)	2 units
Thermostatic air oven	50°C
Vacuum gage / pump	Turbo molecular pump + rotary pump
Sample tube	Standard tube, approx. 1.8 cm ³
Dewar vessel	Volume: 3.8 l Holding time: 80 h
Pretreatment heater	50 - 550°C
Water bath	-10 - 70°C
Analysis software BELMaster™ 7	Adsorption isotherm, BET specific surface area I type (ISO9277), BET automatical analysis, Langmuir specific surface area, BJH, DH, CI, INNES method, t-plot HK, SF, CY method, NLDFT / GCMC (OP BELSim™), MP method, Dubinin-Astakhov method, Difference adsorption isotherm, molecular probe, adsorption rate analysis
Dimensions (W x H x D)	650 x 1020 x 680 mm
Weight (main body)	120 kg
Utility - Gas	He, adsorption gas: 0.1MPa Joint: 1/8" Swagelok joint
Utility - Power	Main unit: AC 100 - 120 V / 200 - 240 V, 1500 W (incl. rotary pump), 50 / 60 Hz Heater: AC 100 - 120 V / 200 - 240 V, 900 W, 50 / 60 Hz
Environmental conditions	Temperature: 10 - 30°C Humidity: 20 - 80% RH
CE certified	yes

Newchrom 6800 Gas Chromatograph



Specifications:

- Newchrom Series 6800 microprocessor-controlled Gas Chromatography system working on 230V AC, 50Hz.
- On Column packed Injector.
- Detector's
 - FID with control module.
 - Four filament TCD with control module.
 - Methanizer.
 - 6 port gas sampling valve, rotary type with 0.5ml sample loop for online gas sampling injection.
- Columns:
 - 1st column: 1/8" OD x 6ft length SS column packed with special packing material to achieve complete separation in a single injection connected to Methanizer followed by TCD followed by FID in series.
 - 2nd Column: 1/8" x 6 ft length SS column packed with Porapak-Q connected to TCD.
 - 3rd column: 1/8" x 6 ft length SS column packed with special material connected to FID.
- Chromatography software and Interface: Microsoft window based Dual channel chromatography software.

Chapter 6

Department of Petroleum Engineering and Geoengineering

Year of Establishment: 2009

Head: Professor Satish Kr Sinha (w.e.f. Aug 2019)

Introduction

The department is focused on facilitating the flow of knowledge in the domain through its advanced pedagogy and state-of-the-art research facilities to the students. It enables them to understand, develop and apply the knowledge gained in the fields of Geology, Geophysics, Reservoir, Drilling, Production Operations, and Economics required in the Petroleum Industry. The department hosts a number of laboratories for undergraduate studies and research in Reservoir Engineering, Drilling Fluid design and analysis, Enhanced oil recovery, Flow assurance, Reservoir modelling and simulation, Gas Hydrates, Geology, Geophysics, and Rock mechanics.

Established in the year 2007, the aim of the department is to make its mark in the Oil and Gas Industries in the country by providing industry-ready students who can work in the challenging and upcoming areas. The department, under the able guidance of six leading Oil Public Sector Units (ONGC, IOCL, OIL, GAIL, BPCL, and HPCL) in association with the Oil Industry Development Board (OIDB), has marked its presence to the academia and research in the domain of petroleum engineering. Alumni of this department have been associated with esteemed industries like ONGC, Schlumberger, Halliburton Services, Baker Hughes, Shell, Oil India, Adani Gas, Essar Oil, Cairn Oil and Gas among others.

The department has experienced faculty members, technical personnel aided by industry experts whose achievements have brought accolades to the Institute. The undergraduate and postgraduate courses offered by the department are at par with the courses offered by most International Universities in the domain of Petroleum Engineering. The department has also launched a IDD program in Geoscience & Engineering (B.Tech. in Geoscience and Engineering and M.Tech. in Geophysical Technology/Geological Technology) from the academic year 2021-22 to improve the understanding of the prediction behavior of the earth systems and processes, and exploration of natural resources.

Major areas of Research

- Drilling Fluids Design and Analysis
- Enhanced Oil Recovery
- Reservoir Simulation
- Reservoir Engineering
- Well Test Analysis
- CO₂ sequestration
- Flow Assurance
- Gas Hydrates
- Petroleum Geophysics
- Near Surface Geophysics
- Organic Petrology and Source Rock Characterization
- Engineering Geology
- Rock Mechanics
- Rock Physics

Infrastructure

S. No.	Particulars	Number
1	No. of Classrooms	3Nos. (AB-1:LR2, L-4 & LR-5)
2	No. of Laboratory	UG-4 & PG-2
3	No. of Computers available for students in the Department/ Centre/ Centre	14 (for PG students)

Unique Achievement / Preposition of the Department/Centre

Academic Programmes offered

New Courses Introduced

S. No.	Course Code	Course Name	Course credit
1	PE-421	Unconventional Hydrocarbon Resource	6
2	PE-443	Petroleum Field Resource Management	6
3	PE-331	Petroleum Facilities Design & Operation	11

Annual Report 2022-2023

S. No.	Course Code	Course Name	Course credit
4	PE -241.L	Reservoir Engineering Lab	2
5	PE-544	Instrumental Techniques for Oil and Gas Industry	9

S. No.	Programme	I Year	II Year	III Year	IV Year	V Year & above
2	M. Tech/ M. Pharm		6			
3	Ph. D (Under Institute Fellowship)		7	6	2	1
4	Ph. D (Under Project Fellowship)	3		1		
5	Ph. D (Under Sponsored Category)	1	1			

Students on Roll

S. No.	Programme	I Year	II Year	III Year	IV Year	V Year & above
1	B. Tech/B.Arch		46	27	43	

Names of students/scholars who attended conferences/workshops/seminars and symposia abroad or in India

S. No.	Name of Student	Roll No.	Conference/Seminar/Symposia/Workshop	Date & Venue	Financial Assistance From
INDIA					
1	Himanshu Kesarwani		5th South Asian Geosciences Conference and Exhibition,	Geo India 2022, 14-16 October, 2022	RGIPT
2	Kaushal Kishor	21PE 0006	1. Capacity building and scientific writing and communication skill	25th to 30th November 2022, BHU and Geochemical Society	Registration fees waive off by Organizer
	Kaushal Kishor and Manish Kumar Srivastava	21PE 0006 21PE0102	2. National Seminar on conventional, renewable energy sources and climate change perspective	23-24 June 2023 Organized by Gondwana Geological Society with Geological Survey of India	All the expenses borne by the Organizers
3	Divyanshu Singh	21PE0005	1. International Conference on Engineering Geology and Geotechniques for safe and sustainable infrastructures (EGCON-2022) 2. Capacity building and scientific writing and communication skill 3. 9th Indian Rock Conference Organized by Indian Society for Rock Mechanics and Tunnelling Technology (ISRM-TT) in association with Central Soil and Materials Research Station	16-17 Nov-2022; Kolkata 25-30 Nov-2022, BHU 16-18 November, 2023, New Delhi	DST Registration fees waive off by Organize DST
4	Kumar Nilankar	21PE0008	1. International Conference on Engineering Geology and Geotechniques for safe and sustainable infrastructures (EGCON-2022) 2. Petroleum Rock Fluid Characterization (workshop)	16-17 Nov-2022; Kolkata 20-26 June, 2022	RGIPT IIT (ISM) Dhanbad
2	Jayant Kumar	21PE1003	5th International Oil & Gas Chemistry, Chemicals and Additives Conference (IOGCA 2022)	22-23 Sep 2022, Ahmedabad	RGIPT
3	Abul Aas	PG19-001	5th South Asian Geoscience Conference and Exhibition International Conference on Engineering Geology and Geotechniques for safe and Sustainable Infrastructures	October 14-16, 2022, Jaipur November 16-17, 2022, Kolkata	RGIPT
ABROAD					
4	Himanshu Kesarwani		83rd EAGE Annual Conference & Exhibition, 2022	6-9th June, 2022 Madrid, Spain	DST, India

Annual Report 2022–2023

Names of students/scholars who got prizes and awards outside the Institute

S. No.	Name of Student	Roll No.	Conference/ Seminar/ Symposia/ Workshop	Date & Venue	Financial Assistance From
1	Himanshu Kesarwani		83rd EAGE Annual Conference & Exhibition, 2022	6-9th June, 2022 Madrid, Spain.	DST, India

Faculty & their Activity

Faculty and their areas of specialisation

S. No.	Name, Qualifications, Employee No.	Date of award of PhD Degree	Major Areas of Specialization (Max. 3 Areas)
PROFESSORS			
1	Dr. Alok Kumar Singh, PhD	1997	Coal & Organic Petrology, Thermal Maturation and petroleum Source Rock Characterization
2	Dr. Satish Kumar Sinha, PhD	15 Dec 2006	Geomechanics, Seismic Data Analysis, Reservoir Characterization
ASSOCIATE PROFESSORS			
1	Dr. Tushar Sharma, PhD, 143	09-02-2015	EOR, CO ₂ Capturing/ Utilization, Nanofluid, Rheology

S. No.	Name, Qualifications, Employee No.	Date of award of PhD Degree	Major Areas of Specialization (Max. 3 Areas)
2	Dr. Shivanjali Sharma, PhD, 141	15th May, 2015	Drilling Fluids, EOR, Flow Assurance
ASSOCIATE PROFESSORS			
1	Dr. Amit Saxena	9 November 2015	Oil Field Chemicals Additives, EOR, Drilling Fluid, Cementing, AI/ML application in oil field
2	Dr. Shailesh Kumar, PhD, 0240	Oct 2018	Flow Assurance, Drilling Fluid Design and Analysis, Crude Oil Characterization
3	Dr. Hemant Kumar Singh	20 July 2018	Geomechanics, Experimental Rock Mechanics, Engineering Geology
4	Dr. Piyush Sarkar	March 2019	Rock Physics, Petrophysics, Geophysics
5	Dr. Amit Kumar, PhD, 233	31st July 2020	EOR
6	Dr. Siddhant Kumar Prasad (0300)	30th September, 2022	Gas hydrates and Flow assurance, Carbon sequestration, EOR
7	Dr. Sidharth Gautam, PhD, 301	08th August, 2023	Drilling Fluid

Short-term courses/workshops/seminars/symposia/conferences/training programmes attended by faculty members in academic institutions and public sector undertakings

S. No.	Name of Faculty Member	Title	Period and Venue
Seminars/Symposia/Conferences			
1	Dr. Amit Saxena	ENERGY CONCLAVE on Energy Storage - Prospects and Challenges	UPES, Dehradun 2022
2	Dr. Amit Saxena	Petroleum Resource Management System Workshop	10th, 11th, and 12th of January 2023
3	Dr. Amit Saxena	Workshop for Executives on Whole Value Chain Carbon Capture, Utilization, and Storage	17th - 19th October 2022
4	Dr. Shivanjali Sharma	Women in Science and Technology-Fostering Innovation	29-30th September, 2022, IIT Gandhinagar
5	Prof. Alok Kumar Singh	- 73rd International Committee for Coal and Organic Petrology Meeting and Symposium (ICCP-2022) - 13th World Petro Coal Congress 2023, International Conference on Petroleum-Coal-Gas & Petroleum- Coal- Gas: Transition to a Green Planet 2023 - National Seminar on Conventional, Renewable Energy Sources and Climate Change Perspective	18-25 September, 2022 15-16 February 2023, New Delhi 23 - 24 June 2023, Organized by Gondwana Geological Society, Nagpur in association with Geological Survey of India
6	Dr. Hemant Kumar Singh	1. International Conference on Human capital Development for Energy Transition (HCDET-2023) 2. Two Days International Seminar on Machine Learning and Deep Learning Application in Geosciences 3. Conventional, Renewable Energy Sources and Climate Change Perspective 4. Recent Trends in Upstream Petroleum Technology, Dibrugarh University, Assam, India (ATAL-FDP program) 5. Plastics Waste Management through Waste to Wealth Concept 6. Research Related Solutions for Faculty and Research Scholars Workshop	27th -28th February 2023 and Delhi 1st -2nd April 2023, IIT Bombay 23 - 24 June 2023, Organized by Gondwana Geological Society, Nagpur in association with Geological Survey of India 7-11 March 2022, Dibrugarh University 21-26 March 2022, Guwahati University 31st Jan- 4th Feb 2022, RGIPT Jais

Annual Report 2022-2023

S. No.	Name of Faculty Member	Title	Period and Venue
7	Dr Shailesh Kumar	International Conference on Human capital Development for Energy Transition (HCDET-2023)	27th -28th February 2023, Delhi
8	Dr Piyush Sarkar	“Conventional, Renewable Energy Sources and Climate Change Perspective”.(Gondwana Geological society)	Nagpur, June 2023
9	Prof. Satish Kumar Sinha	International Meeting on Applied Geoscience and Energy (IMAGE 22)	Houston, USA 22 Aug - 2 Sept 2022
10	Prof. Satish Kumar Sinha	Workshop on Petroleum Resource Management System	New Delhi 11-13 Jan 2023
11	Prof. Satish Kumar Sinha	IEW conference	Begaluru 6-8 Feb 2023

Training programmes attended by Faculty members

1	Dr. Hemant Kumar Singh	1. ONGC, IRS (Represent RGIPT and discuss for collaborative projects) 2. Oil India Jodhpur for industrial Training	12th – 16th Dec -2022 16th – 22nd July -2023
2	Dr. Shailesh Kumar	Detailed course on ‘Flow Assurance using OLGA Simulation’	7 May – 25 July 2022 (40 hr)
3	Prof. Satish Kumar Sinha	National Training Conclave 2023	New Delhi June 11 2023

Meetings

1	Dr.Amit Saxena & Dr.Shivanjali Sharma	Regarding Project Submission	4-6th July 2022,OIL, Duliajan,Assam
2	Prof. Alok Kumar Singh	Birbal Sahni Institute of Palaeosciences, Lucknow, Discussion on project work	17th October, 2022
3	Prof. Alok Kumar Singh	R & D of Oil India Limited Related to projects discussion	8th Nov. 12th Nov. 2022, Dulliajan Assam
4	Prof. Alok Kumar Singh	Birbal Sahni Institute of Palaeosciences, Lucknow, Monitoring of collaborative project work with OIL officials	31 Jan and 1st feb., 2023
5	Prof. Satish Kumar Sinha	IDT-ONGC Visit for Research Collaborations	26-27 May, 2022
6	Prof. Satish Kumar Sinha	Academy-ONGC for OCEDS discussion	22 June, 2022
8	Prof. Satish Kumar Sinha	GERMI for research collaboration	30 Sep 2022
9	Prof. Satish Kumar Sinha	OIL-Duliajan for research collaboration	11-13 Oct 2022
10	Prof. Satish Kumar Sinha	DGH for research collaboration	7 Nov 2022
11	Prof. Satish Kumar Sinha	MoU signing at DGH	23 Jan 2023
12	Prof. Satish Kumar Sinha	Visit to DGH and Cairn India	14-16 Feb 2023
13	Prof. Satish Kumar Sinha	DGH for research collaboration	7 June 2023
14	Prof. Satish Kumar Sinha	OIL visit for research collaboration	9 June 2023
15	Prof. Satish Kumar Sinha	ONGC-Meshana Visit for research collaboration	18-19 July 2023

Special lectures delivered by faculty members in other institutions

S. No.	Name of faculty Member	Topic of Lecture	Institution	Date
1	Dr. Tushar Sharma	Utilization of CO ₂ for oilfield applications: Sequestration and EOR	IIT BHU, India	Dec-2022
2	Dr. Amit Saxena	Effect of heterogeneity and injection rates on the recovery of oil from conventional sand packs: A simulation approach	Persian Gulf University	27 June 2022,
	Prof. Satish Kumar Sinha	Aspiration to be self-reliant in Exploration Seismic	CDAC Pune	28 April 2023

Visits abroad by faculty members

S. No.	Name of Faculty Member	Country Visited	Date of Leaving india	Date of Returning India	Purpose of Visit	Funding from
1	Prof. Satish Kumar Sinha	USA	26-Aug-22	5-Sept-22	SEG Conference	SEG, USA

Honours and awards

S. No.	Name of Faculty Member	Details of Award
1	Dr. Tushar Sharma	DST-SERB grant under CRG scheme
2	Prof. Alok Kumar Singh	OIL Research Funding

Fellowships of academic and professional societies

S. No.	Name of Faculty Member	Details of Fellowship
1	Dr. Shivanjali Sharma	IICHE Lifetime Membership
2	Dr. Amit Saxena	IICHE Lifetime Membership
3	Dr. Tushar Sharma	IICHE Lifetime Membership
4	Dr. Tushar Sharma	Member, Society of Petroleum Engineers: SPE number-3434114
5	Dr. Hemant Kumar Singh	Yearly member of Indian Society of Engineering Geology (ISEG)
6	Dr. Hemant kumar Singh	Society of Petrophysicist (Lifetime Membership)
7	Prof. Alok Kumar Singh	1. Full Member, International Committee for Coal & Organic Petrology 2. Executive Council Member, Coal Petrological Society of India. 3. Life member of Geological, Mining and Metallurgical Society of India 4. Life member of Indian Institute of Mineral Engineers 5. Life member of Geosciences Foundation 6. Life membership of Indian Science Congress Association 7. Member of European Association of Geoscientists and Engineers 8. Society of Petroleum Engineers
8	Dr. Shailesh Kumar	Yearly Member, Society of Petroleum Engineers (SPE)
9	Dr. Shailesh Kumar	Life Member, Indian Science Congress Association (ISCA)
10	Prof. Satish Kumar Sinha	IICHE Lifetime Member SEG Member AAPG Member SPE Member

Books, monographs authored/co-authored

S. No.	Name of Author/ Co- Author	Title	Publisher
1	Saxena N, Kumar A, Mandal A. 2022.,	Nano Emulsions in Enhanced Oil Recovery	Springer

Research and Consultancy

Sponsored research projects (Ongoing only)

Note: Sponsored project name is to be given only in case a faculty member is Project Incharge

S. No.	Title	Period	Funding Agency	Amount (in lakhs of Rs.)	Co-ordinator
1	Study of Carbon dioxide storage and utilization for enhanced oil recovery in Indian oil fields using polymer-nanoparticle assisted carbonated water flooding	2022-2025	SERB-DST	48.64 Lakhs	Dr. Shivanjali Sharma
2	Mechanisms of Carbon Storage for Enhanced Oil Recovery and Net-Zero Scheme in Oilfields of Cambay Basin	2022-2025	SERB-DST	25 Lakhs	Dr.Tushar Sharma

S. No.	Name of Author/ Co- Author	Title	Publisher
2	K.R. Chaturvedi, T. Sharma.	An Overview of the Application of Carbon Nanotubes for EOR and Carbon Sequestration. Chapter in Book: Carbon Nanotubes for a Green Environment: Balancing Risks and Rewards, Apple Academic Press-	CRC Press, January 2022
3	T. Sharma, J. Trivedi, K.R. Chaturvedi.	Nanotechnology for CO ₂ Utilization in Oilfield Applications	Elsevier. 1 st Edition - June 1, 2022

Design and Development Activities

New facilities added

S. No.	Details (Infrastructure, Equipments, etc.)	Value (in Lakhs of Rupees)
1	Warring Blender	8.5 Lakhs
2	Slim Tube Cum Rocking Cell Apparatus Equipment	12.5 lakhs
3	Microwave Synthesis System	11 Lakh
4	IFT, contact angle and surface tension for carbonated water	11.2 Lakh
5	Ultrasonic Pulse Velocity Tester	9.3 lakhs
6	Point load tester along with Brazilian Tensile Strength	4 Lakhs
7	Uniaxial Compressive Strength tester	6.7 Lakhs
8	Rock Physics Lab (UPV transducers, Muffle Furnace, High performance computing workstation)	10 lakhs
9	Proximate Analyzer, LECO	32 Lakhs

Patents filed

S. No.	Name of Faculty Member	Title of Patent
1	Dr.Shivanjali Sharma	Albizia Amara as an eco-friendly additive for drilling fluid and enhanced oil recovery
2	Dr. Tushar Sharma	A System for Hydrogen Storage in Heterogeneous Formations
3	Dr. Tushar Sharma	A Method for Synthesizing Alkali Treated Polymeric Colloidal Suspension of Silica Nanoparticles

S. No.	Title	Period	Funding Agency	Amount (in lakhs of Rs.)	Co-ordinator
3	Geoscientific Data Analysis of Ganga-Punjab and Vindhyan Basins	2023-2024	DGH	11.66 Lakhs	Dr. Satish Kr Sinha Dr. Hemant Kr Singh Dr. Piyush Sarkar
4	Development and Evaluation of Nanocomposite-Pour Point Depressants (N-PPDs) to Improve the Flow Behaviour of Indian Waxy Crude Oils for Pipeline	2022-2024	EEQ, DST-SERB	INR 24.68 Lakh	Dr. Shailesh Kumar

Industrial consultancy projects

S. No.	Name of Faculty Member	Title	Industry	Amount (in lakhs of Rs.)
1	Dr. Tushar Sharma & Dr. Shailesh Kumar	Single-Step Silica Nanofluids as Shale Stabilizing Additive for High Pressure-High Temperature Cementation in Indian Field.	IDT-ONGC	28.06 Lakhs
2	Dr. Shivanjali Sharma & Dr. Amit Saxena	Development of Suitable Drag Reducing Agents for Transportation of Asphaltene crude oils through pipelines	HPCL-Mittal Energy Limited	10.92 Lakhs
3	Prof. Alok Kumar Singh	Organic Petrography, Biostratigraphy, and Palynology Study of Shales of Well Sadiya-1 of Oil India Limited	OIL	19.79 Lakhs
4	Prof. Satish Kumar Sinha	3D Geomechanical model development of Balimara Field	OIL	18.43 Lakhs

Refereed International Journals

1. A. Pandey, H. Kesarwani, A. Saxena, R. Azin, S. Sharma, Effect of heterogeneity and injection rates on the recovery of oil from conventional sand packs: A simulation approach, *Pet. Res.* (2022) 0–6. <https://doi.org/10.1016/j.ptlrs.2022.05.005>.
2. A.P. Pandey, V. Roy, H. Kesarwani, G. Mittal, S. Sharma, A. Saxena, OTC-31439-MS Effect of Silicon Carbide on the Surface Tension and Adsorption of SDS on the Sandstone Formation, (2022). <https://doi.org/10.4043/31439-MS>.
3. H. Kesarwani, F. Khan, A. Tandon, R. Azin, S. Osfour, S. Sharma, Performance Improvement of the Surfactant Polymer Flooding Using Bio Synthesized Calcium Carbonate Nanoparticles: An Experimental Approach, *Arab. J. Sci. Eng.* (2022) 1–18. <https://doi.org/10.1007/S13369-022-06571-5>.
4. H. Kesarwani, M. Belal Haider, R. Kumar, S. Sharma, Performance evaluation of deep eutectic solvent for surfactant polymer flooding, *J. Mol. Liq.* 362 (2022) 119734. <https://doi.org/10.1016/J.MOLLIQ.2022.119734>.
5. A. Pandey, V. Roy, H. Kesarwani, S. Sharma, A. Saxena, Evaluation of Silicon Carbide Nanoparticles as an Additive to Minimize Surfactant Loss during Chemical Flooding, *ChemistrySelect.* 7 (2022). <https://doi.org/10.1002/slct.202104294>.
6. H. Kesarwani, A. Mandal, S. Sharma, Enhanced Oil Recovery from the Methyl Ester Sulfonate Derived from Flaxseed Oil : Interfacial, Adsorption and Rock Wetting Characteristics, *ChemistrySelect.* 7 (2022). <https://doi.org/10.1002/slct.202104593>.
7. H. Kesarwani, V. Srivastava, A. Mandal, S. Sharma, A. Choubey Kumar, Application of γ -MnO₂ nanoparticles for residual oil mobilization through surfactant polymer flooding, *Environ. Sci. Pollut. Res.* (2022). <https://doi.org/10.1007/s11356-022-190090>.
8. F. Khan, A. Tandon, V. Dhar, M. Beg, A. Saxena, S. Sharma, Cement Slurry Design for High-Pressure, High-Temperature Wellbores Using Polymer Nanocomposite: A Laboratory Scale Study Based on the Compressive Strength and Fluid Loss, Energy and Fuels. 36 (2022) 6820–6830. <https://doi.org/10.1021/acs.energyfuels.2c00828>.
9. V. Patel, J. Trivedi, T. Sharma. Influence of hydrophobic association in the aqueous media on the rheology and polymer conformation of associative polymers. *Polymer Bulletin.* 1-21 (2022) . DOI: 10.1007/s00289-022-04484-9
10. K.R. Chaturvedi, R. Narukulla, T. Sharma. Polymeric graphene oxide dispersions for improved carbon capture and utilization in oil recovery. *Petroleum Science and Technology.* 1-15 (2022). DOI: 10.1080/10916466.2022.2096070.
11. A. Pandey, K.R. Chaturvedi, T. Sharma. Evaluation of natural polymer for mobility control in carbon utilization and geo-storage applications. *Petroleum Science and Technology.* 1-15 (2022). DOI: 10.1080/10916466.2022.2093366.
12. K.R. Chaturvedi, S. Bajpai, J. Trivedi, T. Sharma. Air foams for mobility control and subsurface storage of hydrogen in porous media: An experimental study. *Energy & Fuels.* 36 (2022). 5036. <https://doi.org/10.1021/acs.energyfuels.1c04246>.
13. N. Lashari, T. Ganat, S. Kalaam, T.A. Chandio, T. Sharma, S. Qureshi. Impact of a novel HPAM/

- GO-SiO₂ nanocomposite on interfacial tension: Application for enhanced oil recovery. *Petroleum Science and Technology*. 40 (2022). 290-309. <https://doi.org/10.1080/10916466.2021.1993915>
14. N. A. A. M. Fauzi, T. Ganat, K. A. Elraies, S. Zainal, N. Lashari, W. Saphanuchart, T. Sharma. Polymeric flocculants: agglomerate investigation of fines and sand particles at multiphase flow. *International J. Oil, Gas and Coal Technology*. (2022). DOI: 10.1504/IJOGCT.2022.10046892.
15. D.A. Otchere, T. Ganat, V. Nta, E.T. Brantson, T. Sharma. Data analytics and Bayesian optimised extreme gradient boosting approach to estimate cut-offs from wireline logs for net reservoir and pay classification. *Applied Soft Computing*. 120 (2022). 108680. <https://doi.org/10.1016/j.asoc.2022.108680>.
16. A. Fauzi, S. Zainal, W. Saphanuchart, N. Lashari, T. Sharma, T. Ganat. Polymeric flocculants: Agglomerate investigation of fines and sand particles at multiphase flow. *Int. J. of Oil, Gas and Coal Technology*. (2022). DOI: 10.1504/IJOGCT.2022.126827
17. R. Narukulla, U. Ojha, T. Sharma. Facile one pot green synthesis of –NH₂ surface functionalized graphene-polymer nanocomposite: subsequent utilization as stabilizer in Pickering emulsions. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*. 641(2022). 128594. <https://doi.org/10.1016/j.colsurfa.2022.128594>.
18. N. Lashari, T. Ganat*, K.A. Elraies, M.A. Ayoub, S. Kalam, T.A. Chandio, S. Qureshi T. Sharma. Impact of nanoparticles stability on rheology, interfacial tension, and wettability in chemical enhanced oil recovery: A critical parametric review. *Journal of Petroleum Science and Engineering*. 211 (2022). 110167. <https://doi.org/10.1016/j.petrol.2022.110199>
19. A. Debnath, A. Pandey, K.R. Chaturvedi, T. Sharma. Evaluation of performance spectra of mono and divalent low saline brine injection in sandy-carbonates for mobilization of crude oil. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*. 640 (2022). 128506. <https://doi.org/10.1016/j.colsurfa.2022.128506>
20. T. Sharma, A. Joshi, A. Jain, K. R. Chaturvedi. Enhanced oil recovery and CO₂ sequestration potential of Bi-polymer Polyvinylpyrrolidone-Polyvinyl alcohol. *Journal of Petroleum Science and Engineering*. 211(2022). 110167. <https://doi.org/10.1016/j.petrol.2022.110167>
21. K. R. Chaturvedi, T. Sharma. Modified smart water flooding for promoting carbon dioxide utilization in shale enriched heterogeneous sandstone for oil recovery and storage prospects. *Environmental Science and Pollution Research*. (2022) <https://doi.org/10.1007/s11356-022-18851-6>.
22. R. Narukulla, K.R. Chaturvedi, U. Ojha, T. Sharma. Carbon dioxide capturing evaluation of polyacryloyl hydrazide solutions via rheological analysis for carbon utilization applications. *Energy*. 241 (2022). 122929. <https://doi.org/10.1016/j.energy.2021.122929>
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29. Singh, A.K. et al., 2022: Tertiary Himalayan Coal-bearing sequences of India: A reappraisal of their Evolutionary consequences. *Geological Society of India*. Vol. 98, pp. 1697-1707, <https://doi.org/10.1007/s12594-022-2240-6>
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North-East India. *Petroleum Science and Technology*, Volume 40, Issue 18, pp.2238-2250, <https://doi.org/10.1080/10916466.2022.2039185>

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39. A Aas, and S K Sinha, 2023, Seismic site characterization using MASW and correlation study between shear wave velocity and SPT-N. *Journal of Applied Geophysics*, 215, 105131. <https://doi.org/10.1016/j.jappgeo.2023.105131>

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1. Singh, H.K., Sarkar, P. (2023). Exploration and Production Challenges of Coalbed Methane in India. 31-35, 2.
2. Sarkar, P., Singh, K.H., Ghosh, R., Singh, T.N., 2018. Estimation of elastic parameters, mineralogy and pore characteristics of Gondwana shale in Eastern India for evaluation of shale gas potential. *Current Science*. 115, 710-720. DOI: 10.18520/cs/v115/i4/710-720
2. Sarkar, P., Ghosh, R., Singh, K.H., Singh, T. N., 2021. Pore Characteristics of Gondwana Shale of Eastern India. *Journal of Geological Society of India*. 97, 363–374. Doi: 10.1007/s12594-021-1694-2
3. Maurya, S. P., Sarkar, P., 2016. Comparison of Post stack Seismic Inversion Methods: A case study from Blackfoot Field, Canada. *International Journal of Scientific and Engineering Research*. 7, 1091-1101)

Proceedings of International Conferences

1. Roy, Vishnu; Pandey, Anurag; Saxena, Amit; Sharma, Shivanjali; “Assessment of Machine Learning Techniques for Real-Time Prediction of Equivalent Circulating Density”, Offshore Technology Conference Asia, 2022, OnePetro.
2. Pandey, Anurag Pandey; Roy, Vishnu; Kesarwani, Himanshu; Mittal, Govind; Sharma, Shivanjali; Saxena, Amit; “Effect of Silicon Carbide on the Surface Tension and Adsorption of SDS on the Sandstone Formation”, Offshore Technology Conference Asia, 2022, OnePetro.
3. Tandon, Apoorv; Khan, Fahad; Shukla, Raman; Saxena, Amit; Sharma, Shivanjali; Biswas, Koushik Guha; “3-D Micromodel for Visualization & Experimental Analysis of Flow Behavior, Surface Tension and Polymer Concentration on Enhanced Oil Recovery”, Offshore Technology Conference Asia, 2022, OnePetro.
4. Khan, Fahad; Tandon, Apoorv; Kesarwani, Himanshu; Mittal, Govind; Sharma, Shivanjali; Saxena, Amit; “Enhanced Performance of Low Salinity Water Flooding Process Using Potassium Based Monovalent Salt”, OCEANS 2022-Chennai, 01-Jun, 2022, IEEE.
5. Mittal, Govind; Kesarwani, Himanshu; Sharma, Shivanjali; Saxena, Amit; “Experimental Investigations of novel fatty oil based lubricant-enhanced water-based drilling mud via lubricity coefficient, filtration loss, and rheological characterization”, OCEANS 2022-Chennai, 01-Aug, 2022, IEEE.
6. Kishor, K., Srivastava, M.K. and Singh, A.K. 2023: Macro Lithotype and Proximate Analysis: A tool to check Coal Bed Methane Potentiality of Sohagpur Coalfield, India. National Seminar on Conventional,

Renewable Energy Sources and Climate Change Perspective

7. Singh, D., Singh, H.K. (2022) A comprehensive review on the recent development of non-destructive empirical techniques in estimating geo- mechanical properties of shales. International Conference on Engineering Geology and Geotechniques for safe and sustainable infrastructures (EGCON-2022), Kolkata.
8. Kumar, N., Singh, H.K. (2022) Evaluation of Ulusay Block Punch Index Model Efficacy in Predicting Uniaxial Compressive Strength of Anisotropic Rocks. International Conference on Engineering Geology and Geotechniques for safe and sustainable infrastructures (EGCON-2022). Kolkata.
9. Singh, H.K., Ansari, T.A., Ram, B.K. (2022). Laboratory Investigation of Fracture Toughness of Deccan Basalt Using SCB Specimens and AE Characteristics. International Conference on Recent Advances in Geotechnics (EGCON-2021).
10. Sarkar, P., Singh, K.H., 2016, Petrophysical Characterization of Gondwana Shales of South Karanpura Coal Field, Jharkhand, India. ASEG-PESA-AIG-2016, 25th International Geophysical Conference and Exhibition, 21-24 Aug., Adelaide, Australia.
11. A Aas, and S K Sinha, (2022), Utilization of Geotechnical Studies and Electrical Resistivity Tomography for Soil Characterization and Foundation Engineering. Abstract Proceedings of the International Conference on Engineering Geology and Geotechniques for safe and Sustainable Infrastructures, Kolkata, India, November 16-17, ISBN No.: 978-93-5737-702-7, 112
12. A Aas, and S K Sinha, (2022), Geoenviromental investigation using Integrated Geophysical Methods: An Implication to geotechnical engineering. Abstract Proceedings of the International Conference on Engineering Geology and Geotechniques for safe and Sustainable Infrastructures, Kolkata, India, November 16-17, ISBN No.: 978-93-5737-702-7, 56-57
3. Sarkar, P., Singh, K.H., Ghosh, R., Singh, T.N., 2017, Laboratory characterization of shale rock for assessing shale gas potential of Barakar and Barren Measures shale, Eastern India. 54th Annual Convention of Indian Geophysical Union (IGU)-2017, Hyderabad, India.
4. Sarkar, P., Singh, K.H., Ghosh, R., Singh, T.N., 2017, Pore structure and size characterization of Cambay shale using nitrogen gas adsorption and mercury injection capillary pressure techniques. Conference on Challenges in petrophysical evaluation and rock physics modeling of carbonate reservoirs, likely elucidations & way forward”, 30th November -01st December 2017, Victor Menezes Convention Centre (VMCC), IIT Bombay, India.
5. Sarkar, P., Singh, K.H., Ghosh, R., 2018, 3D micro-structure reconstruction and porosity analysis of Indian Gondwana shale. 40th Annual Convention, Seminar and Exhibition on Exploration Geophysics, The Association of Exploration Geophysicist (AEG)-2018, Mumbai, India.
6. Singh, N. P., Singh, R. K., Sarkar, P., & Maurya, S. P. (2017). Estimating Petrophysical Parameters due to Fluid Substitution in Sandstone Reservoir using Gassmann Equation. Challenges in petro-physical evaluation and rock physics modelling of carbonate reservoirs, likely elucidations & way forward, 3th November–1st December, India, Bombay.
7. Singh, H. K., Sarkar, P. Coal bed methane –present status and exploration and production challenges in India” for the conference “Conventional, Renewable Energy Sources and Climate Change Perspective”, Nagpur, 23-24th June 2023.
8. Argal, J., and Sinha, S.K., 2022, Prospectivity Analysis of Ganga Valley Basin with NSP Data, 5th South Asian Geosciences Conference and Exhibition, GeoIndia 2022
9. Kumar, V., and Sinha, S.K., 2022, Machine learning approach for vertical permeability prediction and permeability anisotropy of Hugin sandstone formation: Data driven model (Volve field), 5th South Asian Geosciences Conference and Exhibition, GeoIndia 2022
10. Aas, A., and Sinha, S.K., 2022, Shallow Sub-surface Characterization Using Integrated Geophysical Methods: An Implication to Seismic Data Processing, 5th South Asian Geosciences Conference and Exhibition, GeoIndia 2022

Proceedings of National Conferences

1. Ram, B.K., Mishra, D.A. Singh, H.K. (2023). Shear Behavior of Unfilled-Planar Rock Joints: A Comparative Study between Weathering Grades II and III Joints of Granite and Quartzite, 9th Indian Rock Conference Organized by Indian Society for Rock Mechanics and Tunnelling Technology (ISRMTT) in association with Central Soil and Materials Research Station, New Delhi.
2. Singh, D., Kumar, N., Singh, H.K., (2023). Behavior of Fine-grained Sandstone under Normal and Hot-water Saturation with varying pH conditions. 9th Indian Rock Conference Organized by Indian Society for Rock Mechanics and Tunnelling Technology (ISRMTT) in association with Central Soil and Materials Research Station, New Delhi.

Kindly Provide Brief Details of 5 Articles from the Department/ Centre with maximum no. of Citations in last 5 years

1. Energy recovery from simulated clayey gas hydrate reservoir using depressurization by constant rate gas release, thermal stimulation and their combinations; J.Applied Energy; Volume 225, 1 September 2018, Pages 755-768; No.of Citations:110

2. Stability and rheological properties of nanofluids stabilized by SiO₂ nanoparticles and SiO₂-TiO₂ nanocomposites for oilfield applications; J.Colloids and Surface A: Physiochemical and Engineering Aspects; Volume 539, 2018, Pages 171-183; No.of Citations:106
3. Effect of zinc titanate nanoparticles on rheological and filtration properties of water based drilling fluids;Journal of Petroleum Science and Engineering; Volume 170, November 2018, Pages 844-857; No. of Citations: 78
4. Enhancing the properties of water-based drilling fluid using bismuth ferrite nanoparticles; J.Colloids and Surface A: Physiochemical and Engineering Aspects;Volume 561, 20 January 2019, Pages 165-177; No.of Citations: 63
5. Impact of anionic surfactant on stability, viscoelastic moduli, and oil recovery of silica nanofluid in saline environment; Volume 195, December 2020, 107634; No.of Citations: 62

International collaboration/achievements by the Department/Centre

1. Geosciences Department, Faculty of Science and Information Technology, Universiti Teknologi PETRONAS, 32610 Bandar Seri Iskandar, Perak, Malaysia
2. Department of Geology, Usmanu Danfodiyo University, Sokoto 840004, Nigeria
3. Department of Petroleum Engineering, Kazan Federal University, Kazan 420008, Russia
4. Centre of Advanced Study in Geology, Institute of Science, Banaras Hindu University, Varanasi-221005, India
5. Chemical Engineering Department, IIT Delhi
6. University of Burdwan, Kolkata
7. Kumaon University, Nainital
8. University of Malaya, 50603 Kuala Lumpur, Malaysia



Ultrasonic Cement Analyzer



Proximate Analyzer, LECO

Chapter 07

Department of Electrical and Electronics Engineering

Year of Establishment: 2020

Head: Dr. Umakant Dhar Dwivedi, Associate Professor (w.e.f. June 11, 2019)

Introduction

The Department of Electrical and Electronics Engineering offers undergraduate (B. Tech) in Electronics Engineering and Electrical Engineering (Major in EV). For undergraduate studies, subjects related to Microelectronics, Digital techniques and instrumentation, Communication systems, Electrical Machines, Power Electronics, Electric Drives, Electric vehicles, Control Systems, and Power Systems are accommodated for a wide knowledge of the various fields of electrical and electronics. The subjects offered in the curriculum are designed such that they cover almost all the significant subjects dedicated to industrial applications along with the fundamental concepts. The department also offers Doctoral program in emerging areas of Electrical & Electronics Engineering. Along with this, advanced courses on Embedded systems, AI/ML and Signal processing applications Internet of Things (IoT), Renewable Energy Integration, and Advanced Motor control, are also incorporated in the syllabus to make students industry ready. The department has experienced and well-qualified faculty. Faculty members are actively involved in research activities. The major areas of faculty expertise of the department include Power electronics, Electrical drives, Renewable Energy, Communication, Antenna, Microwave, Microelectronics, MEMS, Opto-electronic devices Machine Learning, and Signal Processing Applications. The Department actively involves and encourages interdisciplinary research for industry-oriented applications.

Major areas of Research

1. Electric Vehicle Technologies
2. AI, ML and signal processing
3. Green Energy and smart grid
4. Communication and IoT
5. Power Electronics and advanced control
6. Microelectronics IC design

Infrastructure

S. No.	Particulars	Number
1	No. of Laboratory	5
2	No. of Computers available for students in the Department/Centre/ Centre	26

Unique Achievement / Preposition of the Department/Centre

Academic Programmes offered

New Courses Introduced

1. B.Tech in Electrical Engineering (Major in E-Vehicle)

S. No.	Course Code	Course name	Course credit
1	EEV211	Electrical Machine – I	11
2	EEV221	Fundamentals of Power Electronics	9
3	EEV351	Fundamentals of Electric Vehicles	9
4	EEV311	Electrical Machine – II	11
5	EEV321	Static Power Converters and Applications	9
6	EEV301	Vehicular Communication Systems and Networks	9
7	EEV341	Power Systems – I	9
8	EEV312	Electric Drives	9
9	EEV441	Power System Protection and Switchgear	9
10	EEV451	EV Batteries and Battery Management System	9
11	EEV443	Power Systems – II	9

Students on Roll

S. No.	Programme	I Year		II Year	III Year
1.	B. Tech/B.Arch	81	19	31	
2.	Ph. D (Under Institute Fellowship)	1	6	0	1
3.	Ph. D (External Candidate – Part time)	4	1	1	

Annual Report 2022–2023

Names of students/scholars who attended conferences/workshops/seminars and symposia abroad or in India

S. No.	Name of Student	Roll No.	Conference/Seminar/Symposia/Workshop	Date & Venue	Financial Assistance From
INDIA					
1	Rachna Vaish	Pee19001	Workshop on Time-Frequency signal processing and applications	27-29 January, 2023	Institute
2	Tanya Verma	21EE0003	Application of Machine Learning in Audio Signal Processing	Sept.- IIITM Gwalior	SERB
			VRITIKA internship on The Road towards Next Generation of Wireless Communication"	Dec.- IIIT Kota	SERB
			Workshop on Advances in Optical Communications	July- IIT Madras	RSG
3	Amit Kumar	21EE0101	Vritika-2022 Internship "Road Towards Next Generation Wireless Communications"	Nov- to Dec- IIIT Kota Jaipur	SERB
4	Stuti Shrivastava	21EE0103	International e-conference on Textile for Advanced Technologies (Textile Tech-2022).	Online	Self-financed
			2023 International Conference on Device Intelligence, Computing and Communication Technologies, (DICCT).		
			Functional Textile and clothing conference 2023		

Names of students/scholars who got prizes and awards outside the Institute (From 1st April 2022 to 31st March 2023)

S. No.	Name of Student	Roll No.	Name of Prize	Date & Venue	Prize awarded by
1	Assher Ali	20EC3011	2nd	March 2023, IIT Bombay	e-yantra
2	Dhruv Joshi	20EC3018	2nd	March 2023, IIT Bombay	e-yantra
3	Saurabh Phulpagar	20EC3031	2nd	March 2023, IIT Bombay	e-yantra
4	Shivam Sharma	20EC3035	2nd	March 2023, IIT Bombay	e-yantra
5	Jovanpreet Singh	20EC3023	2nd	February 2023, IIT Delhi	Functional Textile and clothing conference

S. No.	Name of Student	Roll No.	Name of Prize	Date & Venue	Prize awarded by
6	Rahul Raj	22EV3022	2nd	March 2023, IIT BHU	Technex
7	Soham Jadhav	22EV3009	2nd	March 2023, IIT BHU	Technex
8	Reedham	22EV3023	2nd	March 2023, IIT BHU	Technex
9	Simran Kumari	22EV3028	2nd	March 2023, IIT BHU	Technex
10	Subhradeep Chakraborty	20EC3040	Excellent category	IIT Bombay	FOSSEE
11	Akshat Raj Srivastava	20EC3004	Runner up	2022 Kanjirapally, Kerala	Smart India Hackathon
12	Basant Kumar	20EC3015	Runner up	2022 Kanjirapally, Kerala	Smart India Hackathon
13	Dhruv Saxena	20EC3019	Runner up	2022 Kanjirapally, Kerala	Smart India Hackathon
14	Saurabh Phulpagar	20CE3031	Runner up	2022 Kanjirapally, Kerala	Smart India Hackathon
15	Shamal Santoshrao Deshmukh	20EC3030	Runner up	2022 Kanjirapally, Kerala	Smart India Hackathon
16	Gyana Kashyup	20CS3020	Runner up	2022 Kanjirapally, Kerala	Smart India Hackathon

Faculty & their Activity

Faculty and their areas of specialisation

S. No.	Name, Qualifications, Employee No.	Date of award of PhD Degree	Major Areas of Specialization (Max. 3 Areas)
ASSISTANT PROFESSORS			
1	Dr. Umakant Dhar Dwivedi	2009 from IIT Kanpur	Renewable Energy Integration. Power Electronics & Drives. AI/ML & Signal Processing Application in Automation and Energy Sector
ASSISTANT PROFESSORS			
2	Dr. Abhishek Kr. Singh	2020 from IIT BHU, Varanasi	Microelectronics & IC Design
3	Dr. Sajal Agarwal	2019 from MNIT, Allahabad	Nano fabrication/optical sensor/artificial materials/IoT
4	Dr. Shivanshu Shrivastava	2017 from IIT Guwahati	Cognitive Radio, Wireless Systems Communication Systems
5	Dr. Amarish Dubey	2018 from IIT Kanpur	Flexible Electronics/Green Energy
6	Dr. Vijay Kumar Singh,	25-03-2020	Power Electronics, Power converter control
7	Dr. Ankur Pandey	15.02.2022	IoT, Wireless Communication, Smart Healthcare
8	Dr. Saptarshi Ghosh	13.11.2021	Communications Security/ Smart Grid

Annual Report 2022–2023

Technical and Non-Teaching Staff

S. No.	Name	Designation, Employee No.	Date of Appointment in the department
1.	Mr. Rishabh Maurya	Technical Superintendent (Gr. 1)	12th August 2022
2.	Mr. Rajeev Nayan Pandey	Technician (Gr .1)	24th April 2022
3.	Mr. Ratnesh Chandra Gupta	Technician (Gr .1)	6th June 2022
4.	Mr. Gaurav Kumar	Attendant	13th June 2022

Short-term courses/workshops/seminars/symposia/conferences/training programmes attended by faculty members in academic institutions and public sector undertakings

S. No.	Name of Faculty Member	Title	Period and Venue
Seminars/Symposia/Conferences			
1	Sajal Agarwal	ICT Tools for Teaching and Research	December 5-17, 2022, and PDPM Indian Institute of Information Technology, Design and Manufacturing, Jabalpur, India

Special lectures delivered by faculty members in other institutions

S. No.	Name of faculty Member	Topic of Lecture	Institution	Date
1	Dr. Sajal Agarwal	Introduction to LaTeX and Manuscript writing using LaTeX-Hands-on	University of Allahabad	09th April 2022
2	Dr. Sajal Agarwal	Optical interconnects in electro optics platform	National Institute of Technology Uttarakhand	29th September 2022
3	Dr. Ankur Pandey	AI enabled IoT for Health care and medical electronics	IIT, Patna	20th January, 2023

Honours and Awards

S. No.	Name of Faculty Member	Details of Award
1	Dr. Sajal Agarwal	Elected as Senior Member IEEE

Books, monographs authored/co-authored (From 1st April 2022 to 31st March 2023)

S. No.	Name of Author/Co-Author	Title	Publisher
1	Ritu Pandey, Mukesh Kumar Sinha, Amarish Dubey	Macrophyte and wetland plant fibres	Woodhead Publishing 2023

S. No.	Name of Author/Co-Author	Title	Publisher
2	Ritu Pandey, Amarish Dubey, Mukesh Kumar Sinha	Lotus fibre drawing and characterization	Woodhead Publishing 2023
3	Ritu Pandey, Ragini Dubey, Pintu Pandit, Suruchi Pandey, Mukesh Kumar Sinha, Amarish Dubey	Armours: Ancient Metallic Textiles	John Wiley & Sons, Inc. 2023
4	Sajal Agarwal, Y.K. Prajapati	Transition Metal Dichalcogenide Based Surface Plasmon Resonance for Bio-Sensing (Book Chapter)	CRC Pres, Tylor and Francis 2023
5	Dr. Ankur Pandey	RSS-based Smart Device Localization using Few Shots Learning in IoT Networks (Chapter in Book)	CRC Press, Taylor and Francis Group, USA
6	Gargi Srivastava and Sajal Agarwal	Terahertz Imaging: Timeline and Future Prospects (Book Chapter)	TDCS-2022, Springer Sep 2022

Editorial Boards of Journals

S. No.	Name of Faculty Member	Position (Editor/member)	Name of Journal
1	Dr. Vijay Kumar Singh	Guest Editor	Electronics (ISSN 2079-9292) by MDPI

Design and Development Activities

New Facilities Added

S. No.	Details (Infrastructure, Equipment etc.)	Value (in Lakhs of Rupees)
1	FPGA design software	4.90
2	DC Power Supply	4.90
3	Digital Storage Oscilloscope	17.12
4	Digital Trainer Kit	1.74
5	DSP based Rapid Control Prototyping (DSP Kit)	15.48
6	High Performance Multicore FPGA Based hardware-in-loop (HIL) Real-Time Digital Simulator box and multi I/O data Acquisition system	24.89
7	High Performance Multiphase Drive Systems with Encoder, Sensors Analog/ Digital Converters, Power Converters and Controller Boards	15.00
8	Hand-Held Digital Multimeter	0.60
9	Design Software Cadence	8.29
10	Design Software OrCAD	7.29
11	LCR meter	8.27

S. No.	Details (Infrastructure, Equipment etc.)	Value (in Lakhs of Rupees)
12	AMD kits	0.47
13	Microcontroller kits 8051	0.49
14	Microprocessor kits 8085	0.49
15	DSA module	0.24
16	ADC module	0.24
17	Display module	0.24
18	FMD kits	0.48
19	Phase modulation kits	0.49
20	TLC module	0.24
21	Stepper motor controller module	0.24
22	Stepper motor	0.21
23	Mixed signal Oscilloscope	5.49
24	COMSOL Multiphysics software	3.80

Patents filed

S. No.	Name of Faculty Member	Title of Patent
1	Dr. Ankur Pandey	System for Geospatial Navigation for Smart Parking and Dustbin Management free of GPS. 202231069042, Nov 30, 2022 (status: Filed)

Research and Consultancy

Sponsored research projects (Ongoing only)

Note: Sponsored project name is to be given only in case a faculty member is Project In charge

S. No.	Title	Period	Funding Agency	Amount (in lakhs of Rs.)	Co-ordinator
1	A Proposed Colour Less Fully Transparent & Flexible Organic	2 years 31st Oct	Science and Engg.	28.083 Lakhs	Dr. Abhishek Kumar Singh
2	Energy mitigation for rural people	2021-2023	RGIPST Seed grant	18	
3	Designing and Realization of Optical Fiber Sensor for Adulteration and Health Monitoring of Oil and Gas Infrastructure	2 years	RGIPST Seed grant	10	

Industrial consultancy projects (Ongoing only)

S. No.	Name of Faculty Member	Title	Industry	Amount (in lakhs of Rs.)
1	Dr. Abhishek Kumar Singh	ELT Antenna Testing	Hindustan Aeronautics Limited, Korwa	4.13 Lakhs

Faculty members' participation with other universities under MoUs

Research Publications

S. No.		No.
1	Total Number of Papers Published in Refereed International Journals	11
2	Total Number of Papers Presented in International Conferences	06

Refereed International Journals (From 1st April 2022 to 31st March 2023)

1. Sajal Agarwal, Gargi Srivastava, Y.K. Prajapati, "Dual band Vis-IR absorber using bismuth based helical metamaterial surface" Optical and Quantum Electronics, Springer, vol. 54, pp. 772, 2022.
2. Aqsa Ayub, Muhammad Rizwan, Shivanshu Shrivastava, Adeel Anjum, Pelin Angin, and Yignit Server, "Securely Offloading Computation to the Edge with the Tangle Cache," in Journal of Wireless Mobile Networks, Ubiquitous Computing, and Dependable Applications (JoWUA) (South Korea), vol. 13, Iss. 4, pp. 40-60, Nov. 2022.
3. H. Dahiya, A. Agrawal, G. D. Sharma, and Abhishek Kumar Singh, "Organic bulk heterojunction enabled with nano capsules of hydrate vanadium pentoxide layer for high responsivity self-powered photodetector," Journal of Semiconductors, vol. 43, no. 9, p. 092302, 2022, DOI: 10.1088/1674-4926/43/9/092302
4. R Pandey, N Tiwari, A Dubey, S Jose, N Kambo, S Joshi, VK Chauhan, "A Comparative Study of Phenotypic Variability and Physico-Mechanical Properties of Dual-Purpose Flax Fiber Varieties in India," Journal of Natural Fibers, 19 (17), 15680-15689.
5. R Pandey, GK Prasad, A Dubey, A Arputhraj, ASM Raja, MK Sinha, "Tellicherry Bark Microfiber: Characterization and Processing," Journal of Natural Fibers 19 (16), 13288-13299.
6. R. Suthar, A. T. H. Dahiya, Abhishek Kumar Singh, G. D. Sharma, and S. Karak, "Role of exciton lifetime, energetic offsets, and disorder in voltage loss of bulk heterojunction organic solar cells," ACS Applied Materials & Interfaces, vol. 15, no. 2, pp. 3214–3223, 2023, DOI: 10.1021/acsami.2c18199
7. S. Kumar, V. Gautam, Abhishek Kumar Singh, G. K. Maurya, S. Singh, and P. Kumar, "Liquid phase exfoliated 2-D MoS2 based broadband heterojunction low-powered photosensor", IEEE Transactions on Electron Devices, pp. 1–7, 2023, DOI: 10.1109/TED.2023.3239041
8. Tanya Verma, Shivanshu Shrivastava, Umakant Dhar Dwivedi, Dwarkadas Prahladas Kothari, "Transfer

learning for resource allotment in dynamic hybrid WiFi/ LiFi communication systems”, Elsevier Optics Communications, Volume 546, July 2023, 129761, ISSN 0030-4018

9. Shivanshu Shrivastava, Sunju John, A. Rajesh, P. K. Bora, “Collision Penalty-based Defense against Collision Attacks in Cognitive Radio enabled Smart Devices” accepted for publication in IEEE Transactions on Consumer Electronics, 2023.
10. Vijay Kumar Singh, and R.N. Tripathi, “An FPGA Hardware-in-the-Loop Approach for Comprehensive Analysis and Development of Grid-Connected VSI System”, Energies 2023, 16(2), 759. (<https://doi.org/10.3390/en16020759>)

Proceedings of International Conferences (From 1st April 2022 to 31st March 2023)

1. S. Shrivastava, R. Pandey and A. Dubey; Carbon Nanomaterials from Natural Fiber for Energy Storage; International e-Conference on Textiles for Advanced Technologies TextileTech-2022 November 11-13, 2022, IIT Delhi
2. Jovanpreet Singh, Amarish Dubey and Stuti Shrivastava; Natural Fibers: The Energy Source for Electrical Vehicles; 3rd International Conference on Functional Textiles & Clothing | 10th, 12th February 2023 New Delhi, India.
3. Jovanpreet Singh, Shivangi Srivastava, Stuti Shrivastava, Ritu Pandey, Amarish Dubey, “Comparative study of Structures of Electrochromic Device for Flexible Electrochromic Display,” 2023 International Conference on Device Intelligence, Computing and Communication Technologies, (DICCT), 17-18 March 2023, Subhradip Chakraborty, Tanmay Joshi, and Sajal Agarwal, “Internet of Things (IoT) Based Cost Effective Weather Monitoring Station” in International Conference on Device Intelligence, Computing, and Communication Technologies, Graphic Era University, Dehradun, India, 17-18 March 2023.
4. Sajal Agarwal and Gargi Srivastava, “Recent Advancements in Structural Health Monitoring using Optical Sensor,” in International Conference on Device Intelligence, Computing, and Communication Technologies, Graphic Era University, Dehradun, India, 17-18 March 2023.
5. Rohit Bhavesh, Ankur Pandey and Sudhir Kumar, Smart Device Localization under Generic α -kappa- μ Shadowed Fading IoT Environment using Signed Gradient Method, IEEE Statistical Signal Processing Workshop (SSP), IEEE, Hanoi, Vietnam, pp. 1-, July 2023. DOI: 10.1109/SSP53291.2023.10208026

Kindly Provide Brief Details of 5 Articles from the Department/Centre with a maximum no. of Citations in last 5 years

1. S Tewari, U. D. Dwivedi, ‘Ensemble base big data analytics of lithofacies for automatic development of petroleum reservoir,’ Computers & Industrial Engineering 128, 937-947.
2. R Vaish, U. D. Dwivedi, S Tewari, and SM Tripathi, ‘Machine learning application in power system fault diagnosis: Research advancement and perspective,’ Engineering Applications of Artificial Intelligence, 106, 104504.
3. S Tewari, U. D. Dwivedi A comparative study of heterogeneous ensemble methods for the identification of geological lithofacies Journal of Petroleum Exploration and Production Technology 10 (5), 1849-1868.
4. Shivanshu Shrivastava, B. Chen, C. Chen, H. Wang and M. Dai, “Deep Q-Network Learning Based Downlink Resource Allocation for Hybrid RF/VLC Systems,” in IEEE Access, vol. 8, pp. 149412-149434, 2020.
5. R Pandey, M K Sinha, Amarish Dubey, Cellulosic fibers from Lotus (Nelumbo nucifera) peduncle Journal of natural fibers 17 (2), 298-309.

Distinguished Visitors

S. No.	Name of the visitor & Designation	Date of Visit	Purpose of Visit
1	Arsh Goyal, SDE, Samsung	1st April, 2022	Lecture
2	Dr. Anil Kumar, Principle Scientist, Indian Institute of Remote Sensing	September 2022 (Online)	Lecture
3	Dr. Varun Mishra, Assistant Professor, Graphic Era University	October 2022 (Online)	Lecture
4	Jay Shah, Director of Semiconductor Fab Engineering, Global Foundries	October 2022 (Online)	Lecture
5	Shri Apoorva Mathur, Director, R&D, Synopsis	13th November, 2022 (Online)	Orientation Program of B.Tech 1st year students
6	Prof. P. Chakrabarti, Director, Indian Institute of Engineering Science & Technology	18th November, 2022	Lecture and research discussion with faculty and PhD scholars



Fundamental of Electronics Engineering Lab



Multiphase (5-phase and 9-phase) Motor Drives
(Hardware setup for real time implementation)



Setup of programmable 3-phase AC source



Advanced Design & Simulation Lab and FPGA
Architecture & HDL programming Lab



Microprocessor and Microcontroller Lab



Hardware-in-loop (HIL) simulator for Electric
Vehicle and Renewable energy integration



FPGA controller and 4 channel Digital Storage Oscilloscope

Chapter 08

Sciences and Humanities

Year of Establishment: 2008

Head: Professor Abhay Kumar Choubey (w.e.f. May 2021)

Major areas of Research

- Thermal Storage Systems (with and without storage materials)
- Development of Solar Thermal Energy Storage Systems
- Latent Heat Storage Systems
- Metal-organic frameworks
- Heterogeneous catalysis
- Electrocatalysis
- Nuclear Physics
- Thermal Energy Storage
- Electronic structure calculations for energy materials
- Structure-property correlation through Density Functional Theory calculations
- Graphene Materials
- 2D-Nanomaterials
- Photo catalysis
- Electro catalysis
- Sensing
- Luminescent nanostructure for energy application
- Single molecule nanocatalyst /photocatalyst
- Biomass valorization
- Nanobiochemistry
- Sustainable materials
- Flow Chemistry
- Hydrogels Chemistry
- Water Shut off
- Enhance oil recovery
- Petro chemistry
- Soft sensor and actuators
- Solar energy materials
- Nanomaterial's Science
- Multiferroic and Magnetoelectric Materials

- dielectric material
- Ionic Control of Materials
- Ultra-high-capacitor
- Biogas system and Technology
- Biomass and waste management
- Aquatic biomass
- Man-woman relationships in contemporary literature
- Feminism and gender issues in Indian cinema
- Advertising script and theory
- Energy and communication
- Sociology of development
- Urban Sociology

Infrastructure

S. No.	Particulars	Number
1.	No. of Classrooms	1
2.	No. of Lecture Halls	1
3.	No. of Laboratory	2(UG)
4.	5 (Research lab.)	
5.	No. of Computers available for students in the Department/Centre/ Centre	19

Students on Roll

S. No.	Programme	I Year	II Year
1	Ph. D (Under Institute Fellowship)	8 (2023)	23 (2022)
2	Ph. D (Under Project Fellowship)	0 (2023)	2 (2022)
3	Ph. D (Under Sponsored Category)	Nil (2023)	2 (2022) (CSIR NET JRF) & (UGC NET JRF)

Names of students/scholars who attended conferences/workshops/seminars and symposia abroad or in India

S. No.	Name of Student	Roll No.	Conference/Seminar/Symposia/Workshop	Date & Venue	Financial Assistance From
INDIA					
1	Chandan Upadhyay	20BS0005	SPSI-MACRO-2022	NCL Pune 2-4 Nov 2022	Institute
2	Arpan Tewary	20BS0012	SPSI-MACRO-2022	NCL Pune 2-4 Nov 2022	Institute

Annual Report 2022–2023

S. No.	Name of Student	Roll No.	Conference/Seminar/Symposia/Workshop	Date & Venue	Financial Assistance From
3	Shadab Saifi	PC18002	Conference (CRSI)	3-5 February 2023, JNU New Delhi	RGIPT
4	Gargi Dey	PC19002	Conference (CRSI)	3-5 February 2023, JNU New Delhi	RGIPT
5	Shadab Saifi	PC18002	Conference (MTIC)	15-17 December 2022, BHU	RGIPT
6	Gargi Dey	PC19002	Conference (MTIC)	15-17 December 2022, BHU	RGIPT
7	Amit Kumar Verma	20BS0003	Chemical Engineering Congress (CHEMCON 2022)	December 27th to 30th 2022, HBTU, Kanpur, India	Project P-2001
8	Amit Kumar Verma	20BS0003	International conference on Nanomaterials and sustainable applications, (NANO-SA-2023)	January 10-11th 2023, Aurangabad Maharashtra, India	Project P-2001
9	Perna Tripathi	21BS0005	Chemical Engineering Congress (CHEMCON 2022)	December 27th to 30th 2022, HBTU, Kanpur, India	Project P-2001
10	Ankit Srivastava	PRE19001	Conference on Research Paradigm for Sustainable development (ICERPSD- 2023).	April 27-28, 2023 organized by Jharkhand Rai University, Ranchi.	--
11	Ekta Kushwaha	22BS0002	Workshop-India-RAL Neutron and Muon Science Meeting	June 12-16, 2023, JNC SAR Bengaluru	--
ABROAD					
1	Gourab Roy	22BS0003	Performing experiment at ISIS Facilities, Science and Technology Facilities Council, UK	Rutherford Appleton Laboratory (RAL), Oxfordshire	DST-RAL (UK-India) project

Faculty & their Activity

Faculty and their areas of specialisation

S. No.	Name, Qualifications, Employee No.	Date of award of PhD Degree	Major Areas of Specialization (Max. 3 Areas)
PROFESSORS			
1	Abhay Kumar Choubey Ph. D. 0002	1995	Nanotechnology, Water Shut-off, Enhanced oil recovery & Petrochemistry
2	Umaprasana Ojha, Ph. D.	2006	Hydrogels, Sustainable material & Catalysis
3	Atul Sharma Ph.D.	2003	Phase change material, Solar thermal energy storage system & Renewable energy
ASSOCIATE PROFESSORS			
4	Saurabh Mishra Ph.D.	2007	Energy and Communication & Advertising Script and Theory
5	Debashis Panda Ph.D.	2008	Biomass Valorization, Nanobiochemistry & Flow Chemistry
ASSISTANT PROFESSORS			
1	Anirban Mukherjee Ph.D.	2012	Sociology
2	Tathamay Basu Ph.D.	2015	Magnetic, Ferroelectric and Multiferroic Materials, Quantum materials & Thermoelectric Materials

S. No.	Name, Qualifications, Employee No.	Date of award of PhD Degree	Major Areas of Specialization (Max. 3 Areas)
3	Vipin Amoli Ph.D.	2016	Flexible electronics, Solar cell & Photocatalysis
4	Praveen Kumar Srivastava Ph.D.	2013	Bioenergy
5	Shikha Singh Ph.D.	2018	Material, Polymer & Photocatalysis
VISITING FACULTY			
1	Dr Shailendra Tripathi, Ph.D.	1989	Catalysis, Petroleum Refining & Valorization

Technical and Non-Teaching Staff

Sl. No.	Name, Qualifications	Designation, Employee No.	Date of Appointment in the department
1	Mr Deepak Asthana, M. Tech.	Technical Supdt. Gr. II 23	
2	Mr. Mahesh Singh, M. A.	Assistant Gr. I	2022
3	Mr Anurudh Srivastava, Diploma in IT	Technician Gr.I	2021
4	Mr. Adig Pratap Singh	Technician Gr.I	2018
5	Mr Karan Bahadur	Outsourced Employee	2018

Annual Report 2022–2023

Short-term courses/workshops/seminars/symposia/conferences/training programmes attended by faculty members in academic institutions and public sector undertakings

S. No.	Name of Faculty Member	Title	Period and Venue
Seminars/Symposia/Conferences			
1	Prof. A K Choubey	Biofuels towards a Carbon Neutral World	10th August 2022 organized by Ministry of Petroleum & Natural Gas, Govt. of India (Online)
2	Prof. Umaprasana Ojha	SPSI-MACRO-2022	NCL Pune, 2-4 Nov 2022
3	Dr. Anirban Mukherjee	Tribal Education in India: Deconstructing the Acculturation Hypothesis in XX ISA World Congress of Sociology on Resurgent Authoritarianism: Sociology of New Entanglements of Religions, Politics, and Economies	Organized by International Sociological Association (ISA), Melbourne Convention and Exhibition Centre, Melbourne, Australia, June 25th-July 1st, 2023
4	Dr. Anirban Mukherjee	Migrant Goldsmiths of Bengal: A Sociological Analysis of Informal Manufacturing Sector in Lucknow in the International Conference on Labour Migration and Sustainable Development in Asia: Opportunities, Challenges and Way Forward	Organized by South Asia Centre for Labour Mobility and Migrants (SALAM) and International Institute for Population Sciences (IIPS), June 1– 3, 2023; Venue: IIPS, Mumbai
5	Dr. Anirban Mukherjee	Hybridity, Mimicry, and Cultural Ambivalence: The Question of Cultural Identity of Bengali Immigrants in the United States” in the International Interdisciplinary Series of Conferences on The Global Indian Diasporas: Literary, Cultural and Socio-Economic Perspectives in the 21st Century	Organized by the Centre for Diaspora Studies, Central University of Gujarat, Gandhinagar, India, February 23-25 2023
6	Dr. Anirban Mukherjee	Schooling of the Marginalized: Deconstructing the Vicissitudes of Violence” in the National Seminar on ‘Implementation of Multi and Trans-Disciplinary Education under NEP2020	Organized by Fergusson College, Pune, India, January 18-20, 2023

S. No.	Name of Faculty Member	Title	Period and Venue
7	Dr. Anirban Mukherjee	Successfully completed participation in 10 Day’s National e-Workshop on “Advanced Research Methodology in Social Sciences” from 20th April, 2022 to 29th April, 2022	Organized by A.K. Dasgupta Centre for Planning and Development, Visva-Bharati, April 20-29, 2022
8	Dr. Anirban Mukherjee	Successfully completed Online Certificate Programme on “International Migration from India and Indian Diaspora”	Organized by: TISS, Patna Centre. February 7-10, 2022.
9	Dr. Praveen Kumar Srivastava	Energy Asset Integrity Management (EAIM -2023)	22-23 June, 2023 IISc Bengaluru
10	Dr. Shikha Singh	International Platform on Hydrogen Economy - An Industry-Academia Conclave 2022	30th September 2022, Imperial Hall, The Pride Plaza Hotel Aerocity, New Delhi
Meetings			
1	Dr. Shikha Singh	DST Review Meeting	Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR) December 14–15, 2022

Special lectures delivered by faculty members in other institutions

S. No.	Name of faculty Member	Topic of Lecture	Institution	Date
1	Dr. Arshad Aijaz	Pairing Single-Metal-Atom with Second Metal for Electrochemical Oxygen Reduction	BHU	16 December 2022
2	Dr. Arshad Aijaz	Coupling single-metal-atom with second metal for electrochemical oxygen reduction	IIT Roorkee	05 March 2023
3	Dr. Vipin Amoli	Skin-inspired Electronics for Emerging Human-Interactive Technologies	National Institute of Technology Andhra Pradesh.	15th–19th March 2022
4	Dr. Vipin Amoli	A Bioinspired Hybrid Ionogel for Low-power Hypersensitive Electronic Skins	4th Edition of International Materials Science and Nanoscience Webinar	February 18, 2022.

Annual Report 2022–2023

S. No.	Name of faculty Member	Topic of Lecture	Institution	Date
5	Dr. Tathamay Basu	Spin-driven ferroelectricity through strong 4d-4f magnetic correlation	Indian Association for the Cultivation of Science	12-July-2023
6	Dr. Tathamay Basu	How spin can induce ferroelectric polarization - Invited popular talk to promote science to undergrad students in India	HBCSR, TIFR (online) (in summer camp NIUS -23, organized by Dept. of Atomic Energy, Govt. of India)	08-July-2023

Visits Abroad by Faculty Members

S. No.	Name of Faculty Member	Country Visited	Date of Leaving india	Date of Returning India	Purpose of Visit	Funding from
1	Dr. Anirban Mukherjee	Australia	June 24, 2023	July 2nd, 2023	Attending a Conference	RGIFT

Fellowships of academic and professional societies

S. No.	Name of Faculty Member	Details of Fellowship
1	Dr. Shikha Singh	DST Inspire Faculty

Books, monographs authored/co-authored

S. No.	Name of Author/Co-Author	Title	Publisher
1	Amritanshu Shukla, Atul Sharma, Saurabh Mishra	The South Asian Energy Corridor: Energy Security and Sustainable Clean Energy	Apple Academic Press, (2022)
2	Atul Sharma, Abhishek Anand, Amritanshu Shukla, D. Buddhi	Nanotechnology in Concentrated Solar Power Technology, Solar Energy Harvesting, Conversion and Storage,	Chapter-4, Elsevier (2023)
3	Ankit Srivastava, Abhishek Anand, Amritanshu Shukla, Richa Kothari, D. Buddhi, F. Bruno, Atul Sharma	Application of green energy for drying of food products, Advancements in Nanotechnology for Energy and Environment	Springer Singapore, p. 51-81 (2022)

S. No.	Name of Author/Co-Author	Title	Publisher
4	Shailendra Singh, Abhishek Anand, Amritanshu Shukla, D. Buddhi, F. Bruno, Atul Sharma.	Application of latent heat storage materials in the storage tank of the SWH system, Advancements in Nanotechnology for Energy and Environment	Springer Singapore, p. 83-98 (2022).
5	Ankit Srivastava, Abhishek Anand, Shailendra Singh, Amritanshu Shukla, and Atul Sharma	Indo-China Renewable Energy hub in the Asian Energy Corridor, The South Asian Energy Corridor: Energy Security and Sustainable Clean Energy	Apple Academic Press, Chapter-4 (In Press)
6	Ankit Srivastava, Abhishek Anand, Amritanshu Shukla, and Atul Sharma	Wind Energy Status in South Asian Countries, The South Asian Energy Corridor: Energy Security and Sustainable Clean Energy	Apple Academic Press, Chapter-8 (In Press).
7	Shailendra Singh, Abhishek Anand, Amritanshu Shukla, and Atul Sharma	The role of the solar water heating system in South Asian countries, The South Asian Energy Corridor: Energy Security and Sustainable Clean Energy	Apple Academic Press, Chapter-9 (In Press)
8	Ankit Srivastava, Abhishek Anand, Amritanshu Shukla, and Atul Sharma	Energy Sustainability through Solar Dryer in South Asian Countries, The South Asian Energy Corridor: Energy Security and Sustainable Clean Energy	Apple Academic Press, Chapter-10 (In Press).
9	G. Dey, S. Saifi, M. Sk, A.S.K. Sinha, D. Banerjee, A. Aijaz	Immobilizing a homogeneous manganese catalyst into MOF pores for α -alkylation of methylene ketones with alcohols	Royal Society of Chemistry

Editorial boards of journals

S. No.	Name of Faculty Member	Position (Editor/ member)	Name of Journal
1	Dr. Umapasana Ojha	Guest Editor	Symmetry
		Guest Editor	Materials

Design and Development Activities

New Facilities Added

S. No.	Details (Infrastructure, Equipments, etc.)	Value (in Lakhs of Rupees)
1	Muffle Furnace (1100 oC)	~ Rs 1, 75,000.00

Patents filed

S. No.	Name of Faculty Member	Title of Patent
1	Dr. Arshad Aijaz	Three-dimensional water electrode for seawater electrolysis (202211015887)
2	Dr. Shikha Singh	Layered electrode for seawater electrolysis (202211011767)

S. No.	Name of Faculty Member	Position (Editor/ member)	Name of Journal
		Review Editor	Frontiers in Chemistry
2	Dr. Atul Sharma	Guest Editor of a special issue on “Thermal Energy Storage and Solar Thermal Energy Systems” in ‘Energies’ (ISSN 1996-1073) journal (December 2022).	A2: Solar Energy and Photovoltaic Systems
3	Prof. A. K. Choubey	Member Editorial Board	Frontiers in Energy Research Journal of Petroleum Engineering & Technology

Research and Consultancy

Sponsored research projects

S. No.	Title	Period	Funding Agency	Amount (in lakhs of Rs.)	Co-ordinator
1.	Scalable Strategies Towards Tough & Functional Hydrogels through Controlling of the Chain Confrontation and Entanglement followed by Sequential Networking for Soft Electronics Applications	2023-2025	SERB	39.9	Prof. U. Ojha
2	Supported Single-Manganese-Atom Electrocatalysts: Understanding Manganese-Support Interactions, Enhanced Stability, and Application as Oxygen Electrodes in Electrochemical Devices under Acidic Electrolytic Conditions	2019-2022	SERB	23.65	Dr. Arshad Aijaz
3	Metal-Organic Frameworks-Derived Nanomaterials for Electrocatalysis	2021-24	CSIR	19.44	Dr. Arshad Aijaz
4	Performance Evaluation of a floating Bio-gas Plant by Integrated Semi-transparent photo-voltaic Thermal (SPVT) collectors (Bi-SPVT) during harsh winter Indian climatic conditions	2021 to 2024	PCRA	25	Dr. Praveen Kumar Srivastava
5	Fabrication of Hybrid Ionic Electroactive Polymers-based Low-powered, High-performance Soft Actuators for Soft Robotics Applications	2023-2025	SERB, DST	24.95	Dr. Vipin Amoli
6	Development of Materials Applicable for Artificial photosynthesis or Sustainable Production of Energy	2018-2023	DST	35	Dr. Shikha Singh
7	Design and Investigation of magnetoelectric materials- an emerging route in data-storage Devices	2022-24	SERB	33	Tathamay Basu
8	Investigation of magnetic structure and magnetoelectric coupling of designed 4d/5d -4f coupled strongly correlated systems	2022-25	UGC-DAE CSR	1.35	Tathamay Basu

Faculty members' participation with other universities under MoUs

Research Publications

S. No.		No.
1	Total Number of Papers Published in Refereed National Journals	02
2	Total Number of Papers Published in Refereed International Journals	25

Refereed International Journals

1. Production and characterization of sustainable vermicompost derived from poultry litter and rice straw using tiger worm *Eisenia fetida*. P. K. Srivastava, A. Singh, S. Kumari, S. Arora, A. K. Choubey, A. S. K. Sinha. *Bioresource Technology*. 369 (2023) 128377.
2. Application of α - MnO_2 nanoparticles for residual oil mobilization through surfactant polymer flooding. Himanshu Kesarwani, Vartika Srivastava, Ajay Mandal, Shivanjali Sharma, Abhay Kumar Choubey. *Environmental Science and Pollution Research*, 2022.
3. The effects of dietary immunostimulants on the innate immune response of Indian major carp: A review. Sudhir Kumar, Abhay Kumar Choubey, Praveen Kumar Srivastava. *Fish and Shellfish Immunology*. 123 (2022) 36-49.
4. Development of the nano-enhanced phase change materials using α - MnO_2 nanoparticles prepared through green route synthesis. Anand, Abhishek; Srivastava, Vartika; Shukla, Amritanshu; Choubey, Abhay; Sharma, Atul. *Energy Storage*. 2022.
5. Numerical analysis of phase change and container materials for thermal energy storage in the storage tank of solar water heating system. Shailendra Singh, Abhishek Anand, A. Shukla, Atul Sharma. *Journal of Thermal Science*, 32, 2023.
6. Box-Type Solar Cookers: An Overview of Technological Advancement, Energy, Environmental, and Economic Benefits. Navendu Misra, Abhishek Anand, Saurabh Pandey, Karunesh Kant, Amritanshu Shukla, Atul Sharma. *Energies*, 16, 1697 (2023).
7. Development and thermophysical analysis of binary eutectics phase change materials for solar drying application. Saurabh Pandey, Abhishek Anand, Dharam Buddhi, Atul Sharma., *F1000Research* (2022).
8. Development of phase change materials for low-temperature thermal energy storage application. Kamal Nayan, Abhishek Anand, A. Shukla, D. Buddhi, Atul Sharma., *F1000Research* (2022).
9. Performance evaluation and financial viability analysis of grid associated 10 MWP solar photovoltaic power plant at UP India. Shailendra Singh, Majed Alharthi, Abhishek Anand, Amritanshu Shukla, Atul Sharma, Hitesh Panchal., *Scientific Reports*, 12, 22380 (2022).
10. Sensitivity Analysis for Decisive Design Parameters for Energy and Indoor Visual Performances of a Glazed Façade Office Building. Ramkishore Singh, Dharam Buddhi, Samar Thapa, Chander Prakash, Rajesh Singh, Atul Sharma, Shane Sheoran, K. K. Saxena, *Sustainability*, 14, 14163 (2022).
11. Performance evaluation of an industrial solar dryer in Indian scenario: A techno-economic and environmental analysis. Ankit Srivastava, Abhishek Anand, A. Shukla, Anil Kumar, Atul Sharma., *Clean Technologies and Environmental Policy*, Vol. 24, 2881–2898 (2022).
12. Potential of biogenic and non-biogenic waste materials as flocculant for algal biomass harvesting: Mechanism, parameters, challenges and future prospects, Har Mohan Singh, Mriduta Sharma, V.V. Tyagi, Kajol Gorla, D. Buddhi, Atul Sharma, Frank Bruno, Shane Sheoran, Richa Kothari, *Journal of Environmental Management* (In Press – 2023)
13. Closed-loop Recyclable & Biodegradable Thioester Based Covalent Adaptable Networks. Maity, P.; Upadhyaya, C.; Ojha, U. *Chem. Commun.*, 2023, 59, 4225-4228.
14. Scalable Green Synthesis of Ni_3N Encapsulated NC layered FeOOH Heterostructures: Bifunctional Electrodes for Sustainable Electrocatalytic Sea Water Splitting. Tewary, A.; Mandal, S.; Alam, Z.; Sinha, A. S. K.; Ojha, U., *ACS Sustain. Chem. Eng* 2023, 11, 6556-6566.
15. Stress Induced Shape Shifting Materials Possessing Autonomous Self-Healing and Scratch Resistant Ability. Upadhyaya, C.; Ojha, U., *Chem. Asian. J.* 2023, 18, e202201082.
16. MoS_2 and WS_2 Nanosheets Decorated on Metal–Organic Framework-Derived Cobalt/Carbon Nanostructures as Electrocatalysts for Hydrogen Evolution S. Saifi, G. Dey, J. Karthikeyan, A. S. K. Sinha, and A. Aijaz *ACS Appl. Nano Mater.* 2022, 5(8) 10696-10703.
17. Immobilizing a homogeneous manganese catalyst into MOF pores for α -alkylation of methylene ketones with alcohols. G. Dey, S. Saifi, M. Sk, A. S. K. Sinha, D. Banerjee, and A. Aijaz *Dalton Trans.*, 2022, 51, 17973-17977.

18. Positive Ageing in Institutional Homes: Towards a De-Stigmatization Process, Working with Older People. Gupta, Satish, and Anirban Mukherjee, (2023)., Emerald Publications (Forthcoming).
19. Ittar Industry of Kannauj: A Saga of Commodification of Olfactory Aesthetics. Satish, Shukla, Anirban Mukherjee, and Gerad Middendorf. (2023). Journal of Land and Rural Studies, Sage Publications (ISSN 23210249). (Forthcoming).
20. An estimation of bio-methane generation from photovoltaic thermal compound parabolic concentrator (PVT-CPC) integrated fixed dome biogas digester. Amit K. Singh, Praveen K. Srivastava, Akhoury S.K. Sinha, Gopal N. Tiwari. Biosystems Engineering (2023) 227: 68-81.
21. Waste ilmenite sludge-derived low-cost mesoporous Fe-doped TiO₂: A versatile photocatalyst for enhanced visible light photocatalysis without a Cocatalyst. A. Mishra, V. Verma, A. Khan, D. Kumar, T. S. Khan, V. Amoli, A. K. Sinha. Journal of Environmental Chemical Engineering 11, 110319, 2023.
22. A novel ternary metal oxide cascade Z-scheme heterojunction for efficient CO₂ photoconversion without a co-catalyst. P. K. Prajapati, D. Garg, A. Malik, D. Kumar, V. Amoli, S. L. Jain. Journal of Environmental Chemical Engineering 10, 108147, 2022.
23. Visible Light-Promoted Enhanced Photocatalytic Hydrogen Generation by the CeF₃:Ho³⁺-Incorporated TiO₂ Nanosystem. A. K. Verma, P. Tripathi, A. Dubey, N. K. Vishwakarma, A. S. K. Sinha, S. Singh. ACS Applied Energy Materials, 2023, 6, 11, 5739–5752
24. Photocatalytic Production of Oxygen by Nitrogen Doped Graphene Oxide Nanospheres: Synthesized via Bottom-Up Approach Using Dibenzopyrrole, A. K. Verma, P. Tripathi, Z. Alam, S. K. Mishra, B. Ray, A. S. K Sinha, S. Singh, Chemistry Select, 2022, 7, e202202813.
25. Fabrication and evaluation of a self-standing reduced graphene-tungsten oxides hybrid electrode for acidic water splitting, P. Tripathi, A. K. Verma, A. Vishwakarma, K. Mitra, B. Ray, A. S. K Sinha, S. Singh, International Journal of Hydrogen Energy, 2022, 47, 36381-36396.

Refereed National Journal

1. 1. Gupta Satish & Mukherjee, Anirban. (2022). A Study of Elderly in the Old Age Homes of Varanasi. Indian Journal of Gerontology. (A Quarterly journal devoted to research on Ageing) Vol. 36(4): 560-573. (Reg.No: R.N.17985/69: ISSN 0971-4189).
2. Shukla, Satish and Anirban Mukherjee (2022). Unmasking the Challenges of Attar Industry in Kannauj: A Repertoire of Sociological Insights. Man and Development. (ISSN 0258-0438) (Forthcoming) OCLC/WorldCat Indexed.

Chapter 09

Department of Management Studies

Year of Establishment: 2023

Head: Dr. Jaya Srivastava

Infrastructure

S. No.	Particulars	Number
1	No. of Classrooms	01
2	No. of Lecture Halls	01
3	No. of Laboratory	01
4	No. of Computers available for students in the Department/Centre/ Centre	40

Academic Programmes offered

New Courses Introduced

Semester- I

S. No.	Course Code	Course name	Course credit
1	CS-381	Linear Optimization for CSE	8

Students on Roll

S. No.	Programme	I Year	II Year	III Year	IV Year	V Year & above
1	Ph. D (Under Institute Fellowship)	03	01	04	04	NA

Names of students/scholars who attended conferences/workshops/seminars and symposia abroad or in India

S. No.	Name of Student	Roll No.	Conference/ Seminar/ Symposia/ Workshop	Date & Venue	Financial Assistance From
INDIA					
1	Mr. Kaushal Jha	21 MS0001	25th Annual SOM Conference	Dec 17, 2022 IIM Indore	Self
2	Divyanshi Pal	PM1904	International Conference on sustainable Business Management (SBM 2023)	23to 25 March 2023, IIT Roorkee	Institute
3	Ekta Chaudhary	Pm1905	International Conference on sustainable Business Management (SBM 2023)	23to 25 March 2023, IIT Roorkee	Institute
4	Shani Sav	22ms0005	Workshop on Fraud Analytics and Forensic Accounting	31 march 23, GITAM Hyderabad (online)	self
5	Neha Dikshit	20ms0003	Human Capital Development for Energy Transition	27-28 Feb 2023, Indian Habitat centre New Delhi	Institute
6	Neha Dikshit	20ms0003	Workshop on “email marketing” by Great Idea Great Life (GIGL)	15 April 2023 (Online mode)	self
7	Kadam Sambhaji Namdeo	PM1606	International Conference on Business, Digitalization and Sustainability (ICBDS) 2023	UPES Dehradun, 2-4 February 2023.	Self
8	Kadam Sambhaji Namdeo	Pm1606	Workshop on “Reflexive Methodology” at the International Conference on Business, Digitalization and Sustainability (ICBDS)	UPES Dehradun, 2-4 February 2023	Self
9	Kadam Sambhaji Namdeo	Pm1606	India Energy Week (IEW) 2023	Bengaluru, Karnataka, 6-8 February 2023	Self
ABROAD					
1	Kadam Sambhaji Namdeo	PM1606	Conference “12th Asia Pacific LNG & Gas Summit 2022	Singapore, 6-8 July 2022	self
2	Kadam Sambhaji Namdeo	PM1606	Conference GASTECH Exhibition & Conference 2022	Milan, Italy, 5-8 September 2022.	self

Faculty & their Activity

Faculty and their areas of specialisation

S. No.	Name, Qualifications, Employee No.	Date of award of PhD Degree	Major Areas of Specialization (Max. 3 Areas)
PROFESSORS			
1	Prof. Sanjay Kumar Kar		Marketing
ASSOCIATE PROFESSORS			
1	Dr. Mohd Irfan	05-July-2013	Energy Economics
2	Dr. Jaya Srivastava		HRM
3	Dr. Kavita Srivastava		Marketing
4	Dr. Rohit Bansal		Finance
ASSISTANT PROFESSORS			
1	Dr. Shrawan Kumar Trivedi		IT and Analytics
2	Dr. Debashish Jena		Operations
3	Dr. Saroj Kumar Mishra	May 2012	Marketing & Consumer Behaviour

Technical and Non-Teaching Staff

Sl. No.	Name, Qualifications	Designation, Employee No.	Date of Appointment in the department
1	Arvind Kumar Verma	Assistant Grade I	1st August 2019

Short-term courses/workshops/seminars/symposia/conferences organised by faculty members

S. No.	Cordinator	Title	Period
1	Dr. Jaya Srivastava	International Conference on Human Capital Development for Energy Transition	Feb. 27-28, 2023

Short-term courses/workshops/seminars/symposia/conferences/training programmes attended by faculty members in academic institutions and public sector undertakings

S. No.	Name of Faculty Member	Title	Period and Venue
Seminars/Symposia/Conferences			
1	Dr. Shrawan Kumar Trivedi	CERE 2023	2 Days, IIM Indore

S. No.	Name of Faculty Member	Title	Period and Venue
	Dr. Shrawan Kumar Trivedi	ICSPN 2022	2 Days, Thailand
	Dr. Debashish Jena	Chaired a session & presented paper at 25th Annual SOM Conference	16th to 18th Dec 2022
	At IIM Indore		
	Dr. Debashish Jena	Coauthored paper was presented by Dr. Saurabh Chandra at EURO-2022 conference	EURO-2022
	3-6 July 2022, Aalto University, Espoo, Finland		
	Dr. Debashish Jena	Attended MDP "Predictive Analytics and Financial Modelling	26th - 30th Sep 2022: Held online" by NITIE, Mumbai
	Dr. Debashish Jena	Attended Global Online Certification course on Deep Learning in Logistics	April 20th to April 29th, 2022: organized by NITIE, Mumbai, delivered by Prof. Rahul Rai (Clemson University, South Carolina, US)

Special lectures delivered by faculty members in other institutions

S. No.	Name of faculty Member	Topic of Lecture	Institution	Date
1	Dr. Jaya Srivastava	Change Management	Indian Oil Corp Ltd.	July 25, 2022
2	Dr. Jaya Srivastava	Gurumitra Mentoring Workshop	Indian Oil Corp Ltd.	June 1-2, 2022
3	Dr. Jaya Srivastava	Negotiation Skills	NTPC, Noida	August 18, 2022

S. No.	Name of faculty Member	Topic of Lecture	Institution	Date
4	Dr. Jaya Srivastava	General/ Office Administration and HR related issues like RTI Act, Establishment Rules, Review under FR (56)	NPC, Min. of Commerce	March 25, 2023
5	Dr. Debashish Jena	Newsvendor Inventory Model	IIM Sambalpur	24th Feb 2023 (online)
6	Dr. Debashish Jena	Waiting Line Management	IIM Sambalpur	10th March 2023 (online)

Editorial boards of journals

S. No.	Name of Faculty Member	Position (Editor/ member)	Name of Journal
1	Prof. Sanjay Kumar Kar	Editorial Board Member	Energy Research & Social Science, Elsevier
2	Dr. Rohit Bansal	Editorial Review Board	Amity journal of Finance
3	Dr. Saroj Kumar Mishra	Editorial Review Board	Amity journal of Marketing

Research and Consultancy

Sponsored research projects

Note: Sponsored project name is to be given only in case a faculty member is Project Incharge

S. No.	Title	Period	Funding Agency	Amount (in lakhs of Rs.)	Co-ordinator
1	Prediction of intention to purchase and re-purchase the energy efficient home appliances: Evidence using Explainable Artificial Intelligence	2 Years	RGIPT	5 Lakhs	Dr Shrawan Kumar Trivedi

Faculty members' participation with other universities under MoUs (Ongoing only)

Research Publications

S. No.		No.
1	Total Number of Papers Published in Refereed International Journals	18
2	Total Number of Papers Presented in National Conferences	02
3	Total Number of Papers Presented in International Conferences	09

Refereed International Journals

- Trivedi, SK. et al., (2023, Accepted). Research Trends in Sustainable E-Payment Systems: A Study Using Topic Modeling Approach IEEE transaction on engineering management (IEEE publication, A class as per ABDC list, Scopus Indexed, IF 8.702)
- Trivedi, SK. et al., (2023, Accepted). intention to use social media in online and blended learning in universities: Potential predictors and mediation of collectivism. IEEE transactions on engineering management (IEEE publication, A class as per ABDC list, Scopus Indexed, IF 8.702)
- Trivedi, SK. et al., (2022, Accepted). Intention to use social media in online/blended learning in universities: Potential predictors and mediation of social influence. IEEE transactions on engineering management (IEEE publication, A class as per ABDC list, Scopus Indexed, IF 8.702)
- Trivedi, SK., Patra, P., Shrivastava, P., Zhang, J., (2022, accepted). What Prompts Consumers to Purchase Online? A Machine Learning Approach. Electronic Commerce Research (Springer publication, ABDC A, Scopus Indexed, IF 3.42)
- Trivedi, SK. et al., (2022, Accepted). Exploring factors affecting users' behavioural intention to adopt digital technologies: the mediating effect of Social Influence. IEEE transactions on engineering management IEEE Publication, A class as per ABDC list, Scopus Indexed, IF 8.702)
- Trivedi, S.K., Patra, P., Singh, A., Deka, P. and Srivastava, P.R. (2022), "Analyzing the research trends of COVID19 using topic modeling approach", Journal of Modelling in Management, Vol. ahead-of-print No. ahead- ofprint. Emerald publication, ABDC C, Scopus Indexed, ABS 1)
- Srivastava, P. R., Zhang, Z. J., Eachempati, P., Trivedi, S. K., & Jasimuddin, S. M. (2022). The response of the scientific community to a global crisis: A systematic review of COVID-19 research in 2020. British

- Journal of Health Care Management, 28(2). (ABDC C, Scopus indexed)
8. Trivedi, SK. et al., (2022). Intention to use social media in higher education, mediation of peer influence. Global Knowledge, Memory and Communication (Emerald publication, B class as per ABDC list, Scopus Indexed)
 9. M Irfan, B Mahapatra, RK Ojha. Energy Efficiency and Carbon Emissions in Developed and Developing Economies: Investigating the Moderating Role of Financial Development. Journal of Quantitative Economics.
 10. Nibedita, B and Irfan, M. The Dynamic Nexus Among Energy Diversification and Carbon Emissions in the E7 Economies: Investigating the Moderating Role of Financial Development. Emerging Markets Finance and Trade.
 11. Irfan, M., Mahapatra, B and Shahbaz, M. Energy efficiency in the Indian transportation sector: effect on carbon emissions. Environment, Development and Sustainability.
 12. Mahapatra, B. and Irfan, M. Investigating asymmetric impacts of total factor energy efficiency on carbon emissions in India. Environmental Science and Pollution Research, 30, 55340–55353.
 13. Kadam, S. and Srivastava, K. (2023) “Evolution of Gas Based Economy in India: A Case of Gujarat State” (accepted for publication in Academy of Marketing Studies Journal- Vol 28 Issue 1, 2024; ABDC – B Category)
 14. Kadam, S. and Srivastava, K. (2023) “City Gas Distribution is driving India’s gas-based economy” (accepted for publication in Academy of Marketing Studies Journal; ABDC – B Category)
 15. Kadam, S. and Srivastava, K. (2023) “Impact of Covid-19 Nation-wide lockdown on Indian Natural Gas Market” (Accepted for Publication in Oil, Gas & Energy Quarterly; ABDC – C Category)
 16. 1. A Kumar, RK Choudhary, SK Mishra, SK Kar, R Bansal (2022). The growth trajectory of UPI-based mobile payments in India: enablers and inhibitors. Indian Journal of Finance and Banking 11 (1), 45-59.
 17. S Harichandan, SK Kar, R Bansal, SK Mishra, MS Balathanigaimani, M Dash (2022). Energy transition research: A bibliometric mapping of current findings and direction for future research. Cleaner Production Letters, 100026. <https://doi.org/10.1016/j.clpl.2022.100026>
 18. S Harichandan, SK Kar, R Bansal, SK Mishra (2022). Achieving sustainable development goals through adoption of hydrogen fuel cell vehicles in India: An empirical analysis. International Journal of Hydrogen Energy. <https://doi.org/10.1016/j.ijhydene.2022.11.024>
 19. Kar, SK., Sinha A. S. K., Harichandan, S., Bansal, R., Balathanigaimai, M S. (2022). Hydrogen Economy in India: A status review. WIREs Energy and Environment. DOI: 10.1002/wene.459.
 20. Kar, SK, Sinha, A. S. K., Bansal, R, Shabani, B., Harichandan, S. (2022). Overview of hydrogen economy in Australia. WIREs Energy and Environment. DOI: 10.1002/WENE.457.
 21. Anand Kumar Mishra, Rohit Bansal, Prince Kumar Maurya, Sanjay Kumar Kar, Palvinder Kaur Bakshi (2022). Predicting the Antecedents of Consumers’ Intention towards Purchase of Mutual Funds: A Hybrid PLS-SEM-Neural Network Approach. International Journal Consumer Studies. <https://doi.org/10.1111/ijcs.12850>
 22. Kar, S.K., Bansal, R. and Harichandan, S. (2022). An empirical study on intention to use hydrogen fuel cell vehicles in India. International Journal of Hydrogen Energy. <https://doi.org/10.1016/j.ijhydene.2022.04.137>
 23. Investing for a better tomorrow: Values-driven antecedents of investment in socially responsible equity funds by Indian retail investors, Journal of Cleaner Production.
 24. Maurya, P.K., Bansal, R. and Mishra, A.K. (2023), “Russia–Ukraine conflict and its impact on global inflation: an event study-based approach”, Journal of Economic Studies, Vol. ahead-of-print No. ahead-of-print. <https://doi.org/10.1108/JES-01-2023-0003>
 25. Verma, R. K., & Bansal, R. (2023). Stock Market Reaction on Green-Bond Issue: Evidence from Indian Green-Bond Issuers. Vision, 27(2), 264–272. <https://doi.org/10.1177/09722629211022523>
 26. Dixit, A., Mani, A. & Bansal, R. An adaptive mutation strategy for differential evolution algorithm based on particle swarm optimization. Evol. Intel. 15, 1571–1585 (2022). <https://doi.org/10.1007/s12065-021-00568-z>
 27. Saini, A., Kumar, A., Mishra, S. K., Kar, S. K., & Bansal, R. (2023). Do environment-friendly toys have a future? an empirical assessment of buyers’ green toys decision-making. Environment, Development and Sustainability (Springer, Impact Factor: 4.9).
 28. Kumar, A., Choudhary, R.K., Mishra, S.K., Kar, S. K., & Bansal, R. (2022). The growth trajectory of UPI-based mobile payments in India: enablers and inhibitors. Indian Journal of Finance and Banking, 11, 45-59 (ABDC category: C)
 29. Harichandan, S., Kar, S. K., Bansal, R., & Mishra, S. K. (2022). Achieving sustainable development goals

through adoption of hydrogen fuel cell vehicles in India: An empirical analysis. *International Journal of Hydrogen Energy*, 48, 4845-4859 (Elsevier, Impact Factor: 7.2).

30. Harichandan, S., Kar, S. K., Bansal, R., & Mishra, S. K., Balathanigaimani, M. S., Dash, S. (2022). Energy transition research: A bibliometric mapping of current findings and direction for future research. *Cleaner Production Letters*, 3, 1-17 (Elsevier).

Refereed National Journal

1. Bharadwaj S, Dubey R, Zafar MI, Faridi R, Jena D, Biswas S. Determination of Point-to-Point 3D Routing Algorithm Using LiDAR Data for Noise Prediction. *Applied System Innovation*. 2022; 5(3):58.

Proceedings of International Conferences

1. Trivedi, S. K., Kumar, R., Dey, S., Chaudhary, A. K., & Zhang, J. Z. (2021, September). COVID-19 Patient Recovery Prediction Using Efficient Logistic Regression Model. In *International Conference on Cyber Security, Privacy and Networking* (pp. 134-149). Cham: Springer International Publishing.
2. Irfan, M. Long-run impact of development of financial institutions and markets on renewable energy use: The case of South Asian economies. *International Conference on Sustainable Business Management (SIBM)*, IIT Roorkee held from 23-March-2023 to 25-March-2023.
3. Choudhary, E. and Srivastava, K. "Collaborative Consumption: A more Sustainable way to Utilize Resources" Organized by IIT Roorkee during 26-27 March 2023
4. Pal D., and Srivastava, K. (2022) "Sustainable Branding: A changing Perspective, Organize by IIM Shillong Titled GLOGIFT 21 CONFERENCE Twenty First Global Conference on Flexible Systems Management Indian Institute of Management Theme: Flexibility, Resilience and Sustainability during 21-23 April 2022
5. Chaurasia M., and Srivastava, K. (2022) "Assessing the Impact of Advertisement on Consumer Purchase Intention for Prestigious Apparel Brands: Mediating Role of Masstige" presented in the International Conference on 'Shaping the Future of Management Education for Sustainable Emerging Economies' (SFME 2022) organized by DoMS IITRoorkee. for
6. Saini, A., & Mishra, S. K. (2023, March). Does the Need for Uniqueness, Attitude and Perceived Value have a role in determining Choice Behavior? The moderating role of Green Familiarity. *International Conference on Sustainable Business Management, IIT Roorkee.*
7. Kumar, A., Choudhary, R. & Mishra, S. K. (2023, March). Why Do Consumers Buy Handicraft Products? Do The Intention Leads to Advocacy: An Extension of TPB Model. *International Conference on Sustainable Business Management, IIT Roorkee.*
8. Choudhary, R., Kumar, A., & Mishra, S. K. (2023, March). Do Emotions have a Role in Shaping Consumers' Purchase Intention towards Handicraft Products. *International Conference on Sustainable Business Management, IIT Roorkee.*
9. Kumar, A., & Mishra, S. K. (2022, November). Has the Time Arrived for NFC- based Mobile Payments in India: An Empirical Investigation. *International Conference on 'Shaping the Future of Management Education for Sustainable Emerging Economies (SFME 2022)'*, IIT Roorkee.
10. Saini, A., & Mishra, S. K. (2022, November). Does Green Familiarity, Mindful Consumption and Parasocial Relationships Influence Green Product Repurchase Intention? An Empirical Investigation of Indian Consumers. *International Conference on 'Shaping the Future of Management Education for Sustainable Emerging Economies (SFME 2022)'*, IIT Roorkee.
11. Singh, V., & Mishra, S. K. (2022, November). An extended VT model to predict the intention to use Digital Currency in India. *International Conference on 'Shaping the Future of Management Education for Sustainable Emerging Economies (SFME 2022)'*, IIT Roorkee.

Chapter 10

Computer Science and Engineering

Year of Establishment: 2020

Head: Dr. Susham Biswas (w.e.f. July 2020)

Introduction

The Department of Computer Science and Engineering was established in July 2020. In the year 2021 a new department, Information Technology, was started taking admissions for this session (2021-22). The Computer Science and Design Engineering program has also started taking admissions for the session 2022-23. There are 8 faculty members and 500+ undergraduate students and 7 research scholars in the department

Major areas of Research

Geoinformatics, Information Security, Blockchain, Image Processing and Real-time scheduling, Cloud Computing, Medical image analysis, Fog Computing, Crowdsourcing, Team Formation and Resource Allocation, Software Defined Networking, Machine Learning/Deep Learning Applications, Graph Neural Network for Social Network Analysis

Students on Roll

(Please give No. of students only in respective years)

S. No.	Programme	I Year	II Year	III Year	IV Year	V Year & above
1.	B. Tech/B.Arch	153	84	67	0	0
2.	Dual Degree	36	25	0	0	0
3.	M. Tech/ M. Pharm	NA	NA	NA	NA	NA
4.	Ph. D (Under Institute Fellowship)	0	4	1	0	0
5.	Ph. D (Under Sponsored Category)	0	0	0	1	0

Names of students/scholars who attended conferences/workshops/seminars and symposia abroad or in India

S. No.	Name of Student	Roll No.	Conference/Seminar/Symposia/Workshop	Date & Venue	Financial Assistance From
INDIA					
1	Aryaman Raj, Ishita Srivastava	20CS3011, 20CS3034,	IEEE RAIT IEEE conference.	3-5 March 2023	RGIPT
2	Advait Gupta , Manan Padsala	20CS3072, 20CS3038,	IEEE conference.	2023	RGIPT

Infrastructure

S. No.	Particulars	Number
1	No. of Classrooms	02
2	No. of Lecture Halls	02
3	No. of Laboratory	04
4	No. of Computers available for students in the Department/Centre/ Centre	260

Unique Achievement / Preposition of the Department/Centre

Academic Programmes offered

New Courses Introduced

S. No.	Course Code	Course name	Course credit
1	CS161M	Technology-led Disruption-New India	04

Annual Report 2022-2023

Names of students/scholars who got prizes and awards outside the Institute

S. No.	Name of Student	Roll No.	Name of Prize	Date & Venue	Prize awarded by
1	Aryaman Raj	20CS3011	UNESCO India Africa Hackathon	Gautam Buddha University, Uttar Pradesh, 2022	Finalist
2	Tanmay Bisen	20CS3064	UNESCO India Africa Hackathon	Gautam Buddha University, Uttar Pradesh, 2022	Finalist
3	Sarthak Saxena	20CS3057	UNESCO India Africa Hackathon	Gautam Buddha University, Uttar Pradesh, 2022	Finalist
4	Tanmay Bisen	20CS3064	Singapore India Hackathon 2023.	IIT Gandhinagar, Gujarat, 2023	Finalist
5	Aastha Shayla-	20CS3001	Singapore India Hackathon 2023.	IIT Gandhinagar, Gujarat, 2023	Finalist
6	Ayush Rathore, Shardendu Shekhar Chaubey, and Lokesh Yadav	20CS3018, 20CS3059, 20CS3037	Hackistica Hackathon, 2022	IIT Indore Madhya Pradesh	Finalist

Names of Students/Scholars who went for foreign Internship

S. No.	Name of Student	Roll No.	Name of the Organization	Place of Internship	Country	Duration
1	Deepanshu Goyal	20CS3024	Hong Kong University	Pok Fu Lam	Hong Kong	6 Month

Faculty & their Activity

Faculty and their areas of specialisation

S. No.	Name, Qualifications, Employee No.	Date of award of PhD Degree	Major Areas of Specialization (Max. 3 Areas)
ASSOCIATE PROFESSORS			
1	Dr. Susham Biswas Ph.D. Emp. ID: 61	June 2011	Geoinformatics Image Processing, LiDAR Remote Sensing, AI/ML, UAV, AR/VR
ASSISTANT PROFESSORS			
1	Dr. Daya Sagar Gupta Ph.D. Emp Id:	01 December 2018	Information Security IoT Security Blockchain
2	Dr. Gargi Srivastava Ph.D. Emp ID: 0245	31 January 2020	Computer Vision Image Processing
3	Dr. Niraj Kumar Ph.D. Emp Id: 0260	21 June 2021	Real-time and Cyber-Physical Systems Edge-Cloud Systems Computational Geometry
4	Dr. Rahul Kumar Ph.D. Emp Id: 0288	Dec 2021	Medical Image Analysis, Health Care, Computer Vision, Artificial Intelligence

S. No.	Name, Qualifications, Employee No.	Date of award of PhD Degree	Major Areas of Specialization (Max. 3 Areas)
5	Dr. Kalka Dubey Ph.D. Emp Id: 0289	05 July 2021	Cloud Computing, Fog Computing, IoT, Virtualization
6	Dr. Pallabi Saikia Ph.D. Emp Id: 0292	Dec 2018	Machine Learning/Deep Learning Applications, AI-based Generative models for computer vision,
7	Dr. Akash Yadav Ph.D. Emp Id:0299	Dec 2022	Crowdsourcing, Team Formation and Resource Allocation, Approximation Algorithms, Software Defined Networking

Technical and Non-Teaching Staff

Sl. No.	Name, Qualifications	Designation, Employee No.	Date of Appointment in the department
1.	Mr. Anil Kumar Verma	Assistant System Officer	28-12-2010
2.	Ms. Neha Pandey, M. phil in Mass Communication.	Assistant - I	07.01.2022
3.	Mr. Trivikram, M. Sc in Horticulture.	Technician - I	10.01.2022

Annual Report 2022–2023

Short-term courses/workshops/seminars/symposia/conferences/training programmes attended by faculty members in academic institutions and public sector undertakings

S. No.	Name of Faculty Member	Title	Period and Venue
Seminars/Symposia/Conferences			
1	Dr. Susham Biswas	AI-enabled quality tools for data inspection for HAL Korwa	28/11/2022, One hour -Invited Lecture on AI-enabled quality tools for data inspection for HAL Korwa

Special lectures delivered by faculty members in other institutions

S. No.	Name of faculty Member	Topic of Lecture	Institution	Date
1	Dr. Kalka Dubey	WiFi Security	Uttarakhand Science Education & Research (USERC), Dehradun	10/02/2023

Fellowships of academic and professional societies

S. No.	Name of Faculty Member	Details of Fellowship
1	Dr. Gargi Srivastava	IEEE
2	Dr. Gargi Srivastava	ACM
3	Dr. Daya Sagar Gupta	IEEE
4	Dr. Pallabi Saikia	IEEE
5	Dr. Pallabi Saikia	ACM
6	Dr. Susham Biswas	ISRS

Books, monographs authored/co-authored

S. No.	Name of Author/Co- Author	Title	Publisher
1	Pallabi Saikia, D. Nankani, R.D. Baruah	Machine Learning Paradigm for Predicting Reservoir Property: An Exploratory Analysis”, Earth Observation Data Analytics Using Machine and Deep Learning: Modern tools, applications and challenges	IET
2	Aida A Nasr, Kalka Dubey, Nirmeen El-Bahnasawy, Gamal Attiya, Ayman El-Sayed	Time and Cost-Effective Multi-Objective Scheduling Technique for Cloud Computing Environment	John Wiley & Sons, Inc.
3	Mukherjee, Anirban and Biswas S. (ed.).	Urbanization in India: Socio-Spatial-Issues-and- Dimensions Jaipur: ISBN 9788131612590 (2022)	Rawat Publishers

Research and Consultancy

Sponsored research projects

Note: Sponsored project name is to be given only in case a faculty member is Project Incharge

S. No.	Title	Period	Funding Agency	Amount (in lakhs of Rs.)	Co- ordinator
1	Developing a Model for instrument health monitoring with a setup of transducers, camera array and processing of images using AI/ML techniques	3 years	RGIPT	1	Dr. Gargi Srivastava
2	Optimised Planning for Hybrid H2 Plant Designing from water/wastewater	2022-23	7.5 Lakh		Dr. Susham Biswas and Dr. Gunjan Agrahari
3	Flight Parameter Calibration with AI/ ML	2023-24			Dr. Susham Biswas, Dr. Akash Yadav
4	Real time Flight Dashboard Designing	2023-24			Dr. Susham Biswas, Dr. Gargi Srivastava
5	Garmin GPS Interface Planning	2023-24			Dr. Susham Biswas
6	Digitalization of Cooling Tower for CoC and Efficiency Enhancement	2023-24			Dr. Susham Biswas, Dr. Hakeem Niyas, Dr. Akash Yadav and Dr. Gunjan Agrahari

Faculty members' participation with other universities under MoUs

Research Publications

S. No.		No.
1	Total Number of Papers Published in Refereed National Journals	0
2	Total Number of Papers Published in Refereed International Journals	15
3	Total Number of Papers Presented in National Conferences	0
4	Total Number of Papers Presented in International Conferences	9

Refereed International Journals

- Agarwal, Sajal, Gargi Srivastava, and Yogendra Kumar Prajapati. "Dual band Vis-IR absorber using bismuth based helical metamaterial surface." *Optical and Quantum Electronics* 54.11 (2022): 772. [Citations: 6]
- Harish Puppala, Pallabi Saikia, and Satya Pritam. "Evaluating the applicability of neural network to determine the extractable temperature from a shallow reservoir of Puga geothermal field." *International Journal of Thermofluids*, Volume 17 (2023): 100259
- Kumar, Mohit, Kalka Dubey, Samayveer Singh, Jitendra Kumar Samriya, and Sukhpal Singh Gill. "Experimental performance analysis of cloud resource allocation framework using spider monkey optimization algorithm." *Concurrency and Computation: Practice and Experience* 35, no. 2 (2023): e7469.
- Kumar, Mohit, Jitendra Kumar Samriya, Kalka Dubey, and Sukhpal Singh Gill. "QoS-aware resource scheduling using whale optimization algorithm for microservice applications." *Software: Practice and Experience* (2023).
- Singh, Ranjeet Kumar, Ganesh Gupta, Tej Singh, Kalka Dubey, and Anjula Mehto. "Circulate Matrix and Compression Sensing Based Multi-Level Image Encryption." *Traitement du Signal* 39, no. 3 (2022): 853.
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- Srivastava, A., Shruti Bharadwaj, R. Dubey, V. B. Sharma, and S. Biswas. "Mapping vegetation and measuring the performance of machine learning algorithm in lulc classification in the large area using sentinel-2 and landsat-8 datasets of Dehradun as a test case." *The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences* 43 (2022): 529-535.

Proceedings of International Conferences

- Agarwal, Sajal, and Gargi Srivastava. "Recent Advancements in Structural Health Monitoring using Optical Sensor." 2023 International Conference on Device Intelligence, Computing and Communication Technologies, (-DICCT). IEEE, 2023.
- Prashant, G Srivastava, VP Singh. "Ensemble of Deep Learning approaches for Detection of Brain Tumor." 1st International Conference on Advancements in Smart Computing and Information Security, (ASCIS). Springer, 2022.
- Advait Gupta, Manan and P. Saikia. "Detection of Pneumonia from Chest X-Ray Images Using Transfer Learning on Deep CNN", International Conference of Emerging Technology (INCET). IEEE, 2023.
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- on Artificial Intelligence and Smart Energy (ICAIS), pp. 1228-1233. IEEE, 2023.
5. Bharadwaj, Shruti, Kumari Deepika, Rakesh Dubey, and Susham Biswas. "Noise Prediction Using LIDAR 3D Point Data-Determination of Terrain Parameters for Modelling." In International Conference on Advances in Computing and Data Sciences, pp. 281-295. Cham: Springer International Publishing, 2022.
 6. Bhatt, Arpit, Shruti Bharadwaj, Vinamra Bhushan Sharma, Rakesh Dubey, and Susham Biswas. "An Overview of Road Health Monitoring System for Rigid Pavement By Terrestrial Laser Scanner." The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences 43 (2022): 173-180.
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 8. Sharma, V. B., R. Dubey, A. Bhatt, S. Bharadwaj, A. Srivastava, and S. Biswas. "a Method for Extracting Deformation Features from Terrestrial Laser Scanner 3d Point Clouds Data in Rgipt Building." The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences 43 (2022): 267-272.
 9. Dubey, Rakesh, Shruti Bharadwaj, Vinamra Bhushan Sharma, Arpit Bhatt, and Susham Biswas. "Smart-phone-Based Traffic Noise Mapping System." The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences 43 (2022): 613-620.

Other activity/ Awards/Notable Achievement

1. 1. ISPRS congress, Nice, France awarded international travelling and paper presenting grants to students for presenting the 5 research papers selected there.
2. Delivered Invited Lecture on AI-enabled quality tools for data inspection for HAL Korwa on Quality Month 2022
3. Successfully Mentored a Team of Five RGIPT students to win Smart India Hackathon on Early Oil Spill Detection and Offshore smart Navigation of Ship

विद्यारत्नम् महद्धनम्

Chapter 11

Department of Mathematical Sciences

Year of Establishment: June 2021

Head: Professor Chanchal Kundu (w.e.f. June 2021)

Introduction

The Department of Mathematical Sciences was formed in 2021 with a mission to provide world class computational skills empowering undergraduate students with the desire of learning and innovation, and to provide highly skilled and competent engineers and technologists to meet the present and future industry needs, mainly the energy sectors of the nation and abroad. Apart from producing undergraduates with top level of computational skills, the department also aims to develop and deliver of content rich courses to provide a solid mathematical underpinning for the work of students in other disciplines of the Institute.

The department also has a vibrant doctoral programme that attracts students of varied interests and successfully creates researchers prepared to take challenges of both industry and the academics. The research scholars and faculty members have received some remarkable accolades which stand as a testimony to the sincere and high-quality research and teaching conducted at the department.

We, at the Department of Mathematical Sciences, are continuously striving to become a vibrant and creative scientific community that nurtures its students with the best education and impart in them the curiosity and eagerness to learn, equip them with the computational skills required for industries, and help them thrive to become the next generation of engineers and scientists that positively contribute to the making of a brighter future.

Major Areas of Research

- Reliability Theory
- Statistical Information Theory
- Computational Fluid Dynamics
- Hyperbolic Conservation Laws
- Scientific Computing of PDEs
- Data Assimilation Techniques
- Numerical Analysis of PDEs

- Mesh Free Methods
- Computational Finance
- Integral Equations
- Spectral Theory
- Functional Analysis

Infrastructure

S. No.	Particulars	Number
1	No. of Classrooms	1
2	No. of Lecture Halls	1
3	No. of Laboratory	2
4	No. of Computers available for students in the Department/Centre/ Centre	12

Unique Achievement / Preposition of the Department/Centre

Academic Programmes offered

New Courses Introduced

S. No.	Course Code	Course name	Course credit
1	MA 312	Metric Space and Topology	9
2	MA 412	Advanced Analysis	6

Students on Roll

S. No.	Programme	I Year (2021)	II Year (2020)	III Year (2019)	IV Year (2018)	V Year & above
1.	B. Tech/B. Arch	43	21	0	0	0
2.	Ph. D (Under Institute Fellowship)	4	2	1	1	2
3.	Ph. D (Under National-Level Scholarships)	0	1	2	1	0

Annual Report 2022-2023

Names of students/scholars who attended conferences/workshops/seminars and symposia abroad or in India

S. No.	Name of Student	Roll No.	Conference/Seminar/Symposia/Workshop	Date & Venue	Financial Assistance From
1	Akash Sharma	20BS0002	International Conference on Statistics, Probability, Data Science and Related Areas (ICSPDS2023) in conjunction with the XXXXII Annual Convention of the Indian Society for Probability and Statistics (ISPS)	04-06 January, 2023, Cochin University of Science and Technology Cochin, India	Institute RSG
2	Akash Sharma	20BS0002	International Workshop on Reliability Theory and Survival Analysis (IWRTSA-2022)	23-25 December, 2022, IISER Kolkata	Institute RSG
3	Shashank Kumar Shukla	21MA0003	Advanced Instructional Schools on Advanced Linear Algebra	09/05/2022-28/05/2022 Indian Statistical Institute, Bangalore (Online)	NIL
4	Shashank Kumar Shukla	21MA0003	Annual Foundation School-III	19/06/2022-16/07/2022 Indian Institute of Technology, Guwahati	Institute RSG
5	Shashank Kumar Shukla	21MA0003	International Workshop on Applicable Mathematics for Science and Engineering - Recent Advances	16/02/2023-20/02/2023 VIT-AP University, Andhra Pradesh (Online)	Self
6	Poulami Paul	21MA0001	International Workshop on Reliability Theory and Survival Analysis (IWRTSA 2022)	23/12/2022-25/12/2022 IISER Kolkata	Institute RSG

Faculty & their Activity

Faculty and their areas of specialisation

S. No.	Name, Qualifications, Employee No.	Date of award of PhD Degree	Major Areas of Specialization (Max. 3 Areas)
PROFESSORS			
1	Chanchal Kundu, PhD	2009	Reliability theory and statistical information theory
ASSOCIATE PROFESSORS			
1	Manoj K. Rajpoot, PhD	2012	Numerical analysis of PDEs, hyperbolic conservation laws and scientific computing
ASSISTANT PROFESSORS			
1	Alpesh Kumar, PhD	2015	Mesh-free methods and numerical analysis of PDEs
2	Sudeep Kundu, PhD	2018	Control theory, numerical analysis and PDE
3	Pradeep Das, PhD	2020	Algebraic geometry and complex geometry
4	Gobinda Rakshit, PhD	2020	Integral equations, spectral theory and functional analysis
5	Soniya Dhama, PhD	2020	Time scale theory and dynamical system

Technical and Non-Teaching Staff

Sl. No.	Name, Qualifications	Designation, Employee No.	Date of Appointment in the department
1	Shalini Singh	Assistant- III	20th May, 2022

Short-term courses/workshops/seminars/symposia/conferences/training programmes attended by faculty members in academic institutions and public sector undertakings

S. No.	Name of Faculty Member	Title	Period and Venue
Seminars/Symposia/Conferences			
1.	Prof. Chanchal Kundu	International Workshop on Reliability Theory and Survival Analysis (IWRTSA 2022)	23-25/12/2023, IISER Kolkata
2.	Dr. Pradeep Das	Vector bundles in Chennai	Feb 6-Feb 11, 2023 at IIT Madras
3.	Dr. Sudeep Kundu	Conference on PDE and NA	TIFR-CAM, 28-30, April, 2022 (online)
4.	Dr. Sudeep Kundu	Mathematical analysis of Deep Neural Networks	IIT Bombay, 5, lecture, 19-26 June, 2022

Special lectures delivered by faculty members in other institutions

S. No.	Name of faculty Member	Topic of Lecture	Institution	Date
1	Dr. Alpesh Kumar	Operator Splitting Methods for American Option Pricing	Centre for Data Science, ITER Siksha 'O' Anusandhan (Bhubaneswar)	January 21, 2023
2	Dr. Soniya Dhama	Time Scales Calculus (Theory)	Centre for Data Science, ITER Siksha 'O' Anusandhan (Bhubaneswar)	Oct 29, 2022

Editorial boards of journals

S. No.	Name of Faculty Member	Position (Editor/ member)	Name of Journal
1	Dr. Gobinda Rakshit	Editorial Board Member	Applied and Computational Mathematics

Research and Consultancy

Sponsored research projects

S. No.	Title	Period	Funding Agency	Amount (in lakhs of Rs.)	Co-ordinator
1	Theoretical and Numerical study of radial basis function based scattered node combined compact finite difference method	2023-2025	SERB	6.60	Dr. Alpesh Kumar
2	Closed Loop Control for Parabolic type Problems: Theory and Computation, Start-up research grant project	28 Dec 2022 – 27 Dec 2024	DST SERB	13.20	Dr. Sudeep Kundu

Faculty members' participation with other universities under MoUs (Ongoing only)

Research Publications

S. No.		No.
1	Total Number of Papers Published in Refereed International Journals	8
2.	Total Number of Papers Presented in International Conferences	1

Refereed International Journals

- Kundu, C. (2023), On cumulative residual (past) extropy of extreme order statistics. Communications in Statistics- Theory & Methods, Vol. 52, pp. 5848-5865.
- Sharma, A. and Kundu, C. (2023), Varentropy of doubly truncated random variable. Probability in the Engineering and Informational Sciences, Vol. 37, pp. 852-871.
- Singh, S. and Kundu, C. (2022), On weighted generalized entropy for double truncated distribution with applications. Communications in Statistics- Theory & Methods, DOI: 10.1080/03610926.2022.2150821. Online First.
- Zhang S., Sun Z., and Kumar A. (2023), Meshless symplectic and multi-symplectic scheme for the coupled nonlinear Schrödinger system based on local

RBF approximation. Computers & Mathematics with Applications, Vol. 134, pp. 16-32. 2.

- G. Rakshit. (2023), Asymptotic error analysis for the discrete iterated Galerkin solution of Urysohn integral equations with Green's kernels. Accepted for publication in Advances in Applied Mathematics and Mechanics.
- G. Rakshit, A. S. Rane, and K. Patil. (2022), Richardson extrapolation for the iterated Galerkin solution of Urysohn integral equations with Green's kernels. International Journal of Computer Mathematics, 99(8): 1538 -1556.
- Tomar, S., Dhama, S., Ramos, H. and Singh, M. (2023), An efficient technique based on Green's function for solving two-point boundary value problems and its convergence analysis. Mathematics and Computers in Simulation, Vol. 210, pp. 408-423.
- Bharti, P., Dhama, S. (2023), Stellar Model for Charged and Isotropic Rotating Neutron Stars in $f(R,T)$ Gravity. Iranian Journal of Science, Vol. 47, pp. 601-615.

Proceedings of International Conferences

- Tomar, S., Dhama, S., Vajravelu, K. (2022). An Effective Scheme for Solving a Class of Second-Order Two-Point Boundary Value Problems. Mathematics

and Computing. ICMC 2022. Springer Proceedings in Mathematics & Statistics, vol 415. Springer, Singapore.

5 Articles from the Department/ Centre with maximum no. of Citations in last 5 years

1. Kundu, C. and Patra, A. (2018), Some results on residual life and inactivity time at random time. Communications in Statistics- Theory & Methods, Vol. 47, pp. 372-384.
2. Ghosh, A. and Kundu, C. (2018), On generalized conditional cumulative past inaccuracy measure. Applications of Mathematics, Vol. 63, pp. 167-193.
3. Kumar, A., Bhardwaj, A, and Kumar B V R. (2019), A meshless local collocation method for time fractional diffusion wave equation. Computers and Mathematics with Applications, Vol 78(6), pp. 1851-1861.
4. Kumar, A., Bhardwaj, A, and Dubey S. (2021), A local meshless method to approximate the time-fractional telegraph equation. Engineering with Computers, Vol 37, pp. 3473–3488.
5. VS Yadav, N Ganta, B Mahato, MK Rajpoot, YG Bhumkar (2022). New time-marching methods for compressible Navier-Stokes equations with applications to aeroacoustics problems. Applied Mathematics and Computation 419, 126863, 2022.

Other activities

International collaboration/achievements by the Department/Centre

Indian Faculty visits in the Department/Centre/Centre

S. No.	Name of Faculty Member	Purpose of Visit	Date and Venue
1	Prof. Harish Kumar, IIT Delhi	Departmental lecture series	November 3, 2022 (online mode)
2	Prof. Akash Anand, IIT Kanpur	Departmental lecture series	January 18, 2023, (online mode)
3	Prof Jitendra Kumar, IIT Ropar	Departmental lecture series	February 15, 2023 (Online mode)

Paper Reviewed

Paper Reviewed by Dr. C. Kundu for the following Journals:

- i. Mathematical Reviews by American Mathematical Society (MR 123629).
- ii. Communications in Statistics- Theory and Methods by Taylor & Francis Group.
- iii. Stochastic Models by Elsevier.
- iv. Communications in Statistics- Simulation and Computation by Taylor & Francis Group.
- v. Statistics and Probability Letters by Elsevier.
- vi. Statistical Papers by Springer.

विद्यारत्नम् महद्भनम्

Chapter 12

Centre for Computing and Information Services (CCIS)

Network Connectivity and Internet

CCIS provides uninterrupted Gigabit network connectivity to the entire campus including Academic Buildings, Students both old and new Hostels, Central Library, Administrative Building, Vivekananda Lecture Hall, Commercial Complex, Guest Hostel, Health Centre and Employee Residences through OFC architecture. Internet access is provided by a dedicated lease line of 1:1 from National Knowledge Network (NKN) of 1 Gbps LAN and Wifi. The Institute is a part of the National Knowledge Network (NKN) under which all the national level institutes are connected via the high-speed fiber network.

HPC Cluster (1 master + 8 Nodes)

The High-Performance Computing (HPC) facility installed in CCIS is used for the simulation of mathematical, physical and engineering problems. The main areas of applications are such as numerical reservoir simulation, multiphase flows, flow through porous media, simulation of molecular dynamics, seismic wave propagation and forced/natural convection dominated flows. Currently, the HPC cluster has nine (one master and eight compute) nodes (Fujitsu PR3000) and each node having dual processor with 20 cores/processor (with total 180 cores). The HPC cluster also has software like Gaussian and Tec360.

Institute Mail Server (Google Apps)

For mailing Solution of Institute we have using cloud base Education google app mail server, in which we will create 10,000 mail users and each user having 25GB google app cloud space for his mail box. And Google apps administrator having all the access to implement all organization level mail /group mail id security policy.

Auditorium A/V System

The auditorium is well equipped with Harman & JBL 7.1 audio/video system and live streaming video conferencing with interactive system.

EPABX Server (IP based Landline Phone for 1000 users with 2 PRI System) in HA Mode

Cisco BE6000H EPABX server with support of 1000 users with RAID 5 setting, 64 GB DDR4-2400 MHZ-RDIMM/PC4-19200/ Single rank/X4/1.2v 770W AC hot plug power supply for 1 U C-series rack server, 300x8 GB 12 G SAS 10 K RPM SFF HDD.

IT Room Servers facilities

Institute having total 13 Numbers high end HP, Dell and fusionstor make servers in our IT server room. They are

used in running all institute network license services, institute web applications, library management soul software, network storage, database etc.

Upgrade Institute Unified Threat Management System

For this institute using UTM Sophos XG Firewall hardware as a gateway firewall, Sophos Unified Threat Management appliances offer assured security, connectivity and productivity to our institute by allowing web, application and user identity-based policy controls. This adds speed to an institute security by offering instant visibility into the source of attacks by username rather than IP address – allowing immediate remediation to restore security or allowing proactive security Sophos multi-core technology allows parallel processing of all its security features – ensuring security without compromising performance

Wi-Fi Controller in HA Mode of 400 no.'s Access point

Cisco Wi-Fi Controller (Cisco-5520) with scalability of 1500 access points option of 2x10 Gigabit Ethernet interfaces or 2 Gigabit Ethernet interfaces. It has inbuilt license to support 400 numbers of access points. The campus is well equipped with latest Cisco indoor and outdoor Access points.

Software Services

Institute have many UG/PG teaching and research purpose licensed software such as Matlab, Autocad, IBM SPSS, Origin, Aspen Plus, Kappa, Gaussian & Gauss view, REDAS, CMG, Comsol, Ansys, kingdom, opentech, EvIEWS, Arena, Arcview, Pathview etc.

Undergraduate Computer Laboratory and classes

Institute has populated 170 No.'s Desktop machines in two separate labs with Windows and linux operating systems (OS), each lab having 63 No.'s high Desktop machines with all required teaching lab software's, and additional 54No.s high desktop for student's general access for their research and teaching purpose. All 16 No.'s academic classrooms are equipped with multimedia projector systems and in which 8 No.'s large classrooms equipped with multimedia interactive digital podium systems.

Online classes, Meetings and video conferencing facilities

Institute having 6 No.'s Cisco Webex training and 4 No.'s Zoom meeting license software for UG/PG online classes and web meetings, we have 4 No.' high end interactive conferencing system in our conference room for all online web meetings, conferencing and presentations.

Chapter 13

Academic Programmes and Award of Degrees

Rajiv Gandhi Institute of Petroleum Technology (RGIPT), Jais, is an autonomous institution established by the Government of India. The Institute has been accorded the status of "An Institution of National Importance" along the lines of the Indian Institutes of Technology (IIT) under an Act of Parliament ("Rajiv Gandhi Institute of Petroleum Technology Act 2007"). RGIPT is co-promoted as an energy domain specific institute by six leading Oil Public Sector Units (ONGC, IOCL, OIL, GAIL, BPCL and HPCL) in association with the Oil Industry Development Board (OIDB). The Institute is associated with leading international universities and institutions specializing in the domain of Petroleum & Energy Technology. Institute's prime objective is to provide world class education, training, and research to roll out competent human resources to meet the growing requirements of the Petroleum & Energy Sector. The Institute offers B. Tech., IDD and M. Tech. programmes in various Engineering disciplines along with a MBA programme. PhD programmes in various areas of Basic Sciences, Humanities, Engineering and Management are also offered at the Institute.

The B. Tech. programmes of the Institute are aimed at developing manpower with sound theoretical and experimental background in frontier areas of engineering, sciences and interdisciplinary subjects pertaining to petroleum and energy. The emphasis is on understanding the scientific basis and engineering principles involved in solving problems of practical importance in the relevant field using multidisciplinary approach. An important component of these programmes is to in still a sense of social responsibility, promote independent thinking and develop aptitude towards solving real problems among students. These programmes seek to develop manpower of the highest quality to cater to the needs of industry, R & D organizations and academic institutions. The Institute received a rank for the first time in 2021 in the NIRF assessment conducted by the MHRD, Government of India. The rank of 167th received by the Institute in the category

of Engineering Institutions can be termed as highly impressive considering the fact that the Institute is relatively new with limited student strength and offers domain specific UG and PG programmes. In subsequent years, the aspiration is to be placed within the top 50 in the NIRF ranking framework.

With a view to supplement its on-campus academic offerings, the RGIPT has established two centres at Sivasagar, Assam and Bengaluru, Karnataka. Assam Energy Institute, the centre of RGIPT at Sivasagar, Assam is envisaged to offer programs of education and training of skilled technical manpower at the diploma and advance diploma level courses in various areas of the petroleum sector as per requirements of the oil, gas and petrochemical industries. The Energy Institute, Bengaluru centre is mandated to offer academic programmes along with conducting cutting-edge research in the energy domain. The centre is established to also handle technology licensing and commercialization along with translational research.

Admissions 2022–2023

Admissions 2022–2023 Candidates for admission to the 4-Year B. Tech. and 5-Year Dual Degree programmes were selected through JEE (Advanced) or JEE (Mains) with 80% aggregate in Class 12th. 2-Year M. Tech Programmes, candidates are admitted based on GATE score. Quite a few candidates were also selected for the M. Tech. programme under the Sponsored and Q.I.P. programmes through interviews and/or written tests. Selection for the Ph.D. programmes was done through tests/ interviews, they must qualify the GATE or GPAT or UGC/CSIR-NET. To attract the foreign national students for Studies in India, the Institute has also taken admission in PG and Ph.D. Programmes through the Study in India. The number of students and scholars admitted to the various programmes in July 2022 and in December 2022 are listed in Table as shown below.

Annual Report 2022-2023

RGIPT, Jais, Amethi

Programme & Seats Wise Data (among fresh admissions 2022-23)															
Sl. No.	Programmes	No. of Seats	B. Tech.		IDD (B.Tech. & M.Tech.)		MBA		M.Tech		PhD		Sub Total		Grand Total
			M	F	M	F	M	F	M	F	M	F	M	F	
1	Chemical Engineering	59	45	10					0	0	6	2	51	12	63
2	Computer Science & Engineering	71	57	11							1	0	58	11	69
3	Electronics Engineering	59	48	9							4	2	52	11	63
4	Electrical Engineering (Major: E Vehicle Technology)	36	30	4									30	4	34
5	Information Technology	59	49	9									49	9	58
6	Mathematics and Computing	48	40	5							1	0	41	5	46
7	Petroleum Engineering	59	38	10					0	0	4	1	42	11	53
8	Chemical Engineering (Major: Renewable Energy Engineering)	36	12	2									12	2	14
9	Computer Science & Design Engineering	36	27	4									27	4	31
10	IDD in Computer Science & Engineering and Artificial Intelligent	48			31	6							31	6	37
11	Geo-Science and Engineering	24	0	0									0	0	0
12	Management Studies	50					27	10			4	4	31	14	45
13	Science & Humanities										6	3	6	3	9
***Total		585	346	64	31	6	27	10	0	0	26	12	430	92	522

EIB (Centre of RG IPT)

Programme & Seats Wise Data (Admitted in 2022-23)									
Sl. No.	Programmes	No. of Seats	M. Tech		PhD		Sub Total		Grand Total
			M	F	M	F	M	F	
1	Renewable Energy	15	4	1			4	1	5
2	Data Science Specialisation in Energy	15	2	0			2	0	2
3	Artificial Intelligence Specialisation in Energy	15	0	0			0	0	0
4	Electric Vehicle Technology	20	2	1			2	1	3
5	Electrical & Electronics Engineering	0			0	0			0
6	Material Science Engineering	0			0	0			0
7	Mechanical Engineering	1			1	0	1		1
Total		66	8	2	1	0	9	2	11

Note: If PhD students admitted in other programmes then kindly add the same respectively in the list.

AEI (Centre of RG IPT)

Programme & Seats Wise Data (among fresh admissions 2022-23)				
Sl. No.	Programmes	No. of Seats	Diploma	
			Male	Female
1	Chemical Engineering	60	14	9
2	Petroleum Engineering	60	23	5
3	Mechanical Engineering	60	24	3
4	Electronics and Instrumentation Engineering	40	6	3
5	Fire and Safety Engineering	40	13	0
Total		260	80	20
			100	

Annual Report 2022-2023

RGIPT, Jais, Amethi

Category/Gender-wise students among fresh admissions 2022-23															
Sl. No.	Course Wise	No. of Seats	UR		EWS		OBC- NCL		SC		ST		Sub Total		Grand Total
			M	F	M	F	M	F	M	F	M	F	M	F	
1	Chemical Engineering	59	13	2	7	2	14	4	9	2	2	0	45	10	55
2	Computer Science & Engineering	71	19	9	11	1	16	0	12	0	0	0	57	11	68
3	Electronics Engineering	59	20	4	8	0	17	3	2	2	1	0	48	9	57
4	Electrical Engineering (Major: E Vehicle Technology)	36	5	1	7	0	8	2	9	0	1	1	30	4	34
5	Information Technology	59	12	5	9	2	17	2	11	0	0	0	49	9	58
6	Mathematics and Computing	48	14	1	9	1	14	2	3	1	0	0	40	5	45
7	Petroleum Engineering	59	8	4	9	1	10	3	9	0	2	2	38	10	48
8	Chemical Engineering (Major: Renewable Energy Engineering)	36	3	2	2	0	4	0	3	0	0	0	12	2	14
9	Computer Science & Design Engineering	36	9	1	4	0	10	2	4	1	0	0	27	4	31
10	IDD in Computer Science & Engineering and Artificial Intelligent	48	11	1	3	2	15	2	2	1	0	0	31	6	37
11	Geo-Science and Engineering	24													0
12	Management Studies	50	17	6	2	0	7	3	1	1	0	0	27	10	37
13	PhD	37	11	10	3	1	8	1	4	0	0	0	26	12	38
Total		622	142	46	74	10	140	24	69	8	6	3	431	91	522

EIB (Centre of RG IPT)

Category/Gender-wise students among fresh admissions 2022-23															
Sl. No.	M.Tech/PhD	No. of Seats	UR		EWS		OBC-NCL		SC		ST		Sub Total		Grand Total
			M	F	M	F	M	F	M	F	M	F	M	F	
1	M. Tech in Renewable Energy	15	2	1	0	0	1	0	1	0	0	0	4	1	5
2	M.Tech Data Science Specialisation in Energy	15	1	0	0	0	1	0	0	0	0	0	2	0	2
3	M.Tech Artificial Intelligence Specialisation in Energy	15	0	0	0	0	0	0	0	0	0	0	0	0	0
4	M. Tech in Electric Vehicle Technology	20	1	1	0	0	0	0	1	0	0	0	2	1	3
5	PhD in Electrical & Electronics Engineering	0			0	0	0	0	0	0	0	0	0	0	0
	PhD in Material Science Engineering	0			0	0	0	0	0	0	0	0	0	0	0
	PhD in Mechanical Engineering	1	1	0	0	0	0	0	0	0	0	0	1	0	1
Total		66	5	2	0	0	2	0	2	0	0	0	9	2	11

AEI (Centre of RG IPT)

Category/Gender-wise students among fresh admissions 2022-23															
Sl. No.	Diploma	Total Seats	UR		EWS		OBC-NCL		SC		ST		Sub Total		Grand Total
			M	F	M	F	M	F	M	F	M	F	M	F	
1	Chemical Engineering	60	5	4	0	0	2	3	0	1	7	1	14	9	23
2	Petroleum Engineering	60	6	1	0	0	8	2	2	1	7	1	23	5	28
3	Mechanical Engineering	60	7	0	0	0	9	2	2	0	6	1	24	3	27
4	Electronics and Instrumentation Engineering	40	1	0	0	0	0	2	2	1	3	0	6	3	9
5	Fire and Safety Engineering	40	1	0	1	0	2	0	1	0	8	0	13	0	13
Total		260	20	5	1	0	21	9	7	3	31	3	80	20	100

*Unreserved students enrolled against EWS quota, as in 2022, as EWS students were found.

Annual Report 2022-2023

The Students admitted during the year included the following:

Unreserved	220
OBC	196
EWS	85
SC	89
ST	43

Enrolment of Students/Scholars

The total numbers of students on roll in various programmes of the Institute in the academic year 2022-2023 are provided in Table

Students on roll

RGIPT, Jais, Amethi

Programme & Seats Wise Data (Enrolled in 2022-23)												
Sl. No.	Programmes	B. Tech		MBA		M. Tech		PhD		Sub Total		Grand Total
		M	F	M	F	M	F	M	F	M	F	
1	Chemical Engineering	128	21							128	21	149
2	Computer Science & Engineering	170	23							170	23	193
3	Electronics Engineering	96	11							96	11	107
4	Electrical Engineering (Major: E Vehicle Technology)	30	4							30	4	34
5	Information Technology	78	9							78	9	87
6	Mathematics and Computing	60	6							60	6	66
7	Petroleum Engineering	171	11			5	1			176	12	188
8	Chemical Engineering (Major: Renewable Energy Engineering)	12	2							12	2	14
9	Computer Science & Design Engineering	27	4							27	4	31
10	IDD in Computer Science & Engineering and Artificial Intelligent	52	10							52	10	62
11	Geo-Science and Engineering	0	0							0	0	0
12	Management Studies			42	13					42	13	55
14	PhD							137	44	137	44	181
Total		824	101	42	13	5	1	137	44	1008	159	1167

EIB (Centre of RG IPT)

Sl. No.	Programmes	M.Tech		PhD		Sub Total		Grand Total
		Male	Female	Male	Female	Male	Female	
1	Renewable Energy	2	1	0	0	2	1	3
2	Data Science Specialisation in Energy	1	0	0	0	1	0	1
3	Artificial Intelligence Specialisation in Energy	0	0	0	0	0	0	0
4	Electric Vehicle Technology	2	1	0	0	2	1	3
5	Electrical & Electronics Engineering	0	0	0	0	0	0	0
6	Material Science Engineering	0	0	0	0	0	0	0
7	Mechanical Engineering	0	0	1	0	1	0	1
Total		5	2	1	0	6	2	8

AEIS (Centre of RG IPT)

Sl. No.	Programmes	Diploma	
		Male	Female
1	Chemical Engineering	54	24
2	Petroleum Engineering	68	15
3	Mechanical Engineering	71	8
4	Electronics and Instrumentation Engineering	31	10
5	Fire and Safety Engineering	37	6
Total		261	63
		324	

Annual Report 2022-2023

Category/Gender-wise students on roll

RGIPT, Jais, Amethi

Sl. No.	B.Tech/IDD/M.Tech/PhD	UR		EWS		OBC-NCL		SC		ST		Sub Total		Grand Total
		M	F	M	F	M	F	M	F	M	F	M	F	
1	Chemical Engineering	41	8	16	4	43	6	22	3	6	0	128	21	149
2	Computer Science & Engineering	58	21	35	2	48	0	29	0	0	0	170	23	193
3	Electronics Engineering	39	5	17	1	33	3	6	2	1	0	96	11	107
4	Electrical Engineering (Major: E Vehicle Technology)	5	1	7	0	8	2	9	0	1	1	30	4	34
5	Information Technology	23	5	14	2	26	2	15	0	0	0	78	9	87
6	Mathematics and Computing	23	2	15	1	18	2	4	1	0	0	60	6	66
7	Petroleum Engineering	55	5	32	1	52	4	32	0	5	2	176	12	188
8	Chemical Engineering (Major: Renewable Energy Engineering)	3	2	2	0	4	0	3	0	0	0	12	2	14
9	Computer Science & Design Engineering	9	1	4	0	10	2	4	1	0	0	27	4	31
10	IDD in Computer Science & Engineering and Artificial Intelligent	22	3	5	2	19	3	6	2	0	0	52	10	62
11	Geo-Science and Engineering											0	0	0
12	Management Studies	25	8	5	0	9	4	3	1	0	0	42	13	55
13	PhD	63	24	17	4	38	14	18	2	1	0	137	44	181
	Total	366	85	169	17	308	42	151	12	14	3	1008	159	1167

EIB (Centre of RGIPT)

Sl. No.	M.Tech/PhD	UR		EWS		OBC-NCL		SC		ST		Sub Total		Grand Total
		M	F	M	F	M	F	M	F	M	F	M	F	
1	M.Tech Renewable Energy	2	1	0	0	0	0	0	0	0	0	2	1	3
2	M.Tech Data Science Specialisation in Energy	0	0	0	0	1	0	0	0	0	0	1	0	1
3	M.Tech Artificial Intelligence Specialisation in Energy	0	0	0	0	0	0	0	0	0	0	0	0	0
4	M.Tech Electric Vehicle Technology	1	1	0	0	0	0	1	0	0	0	2	1	3
5	PhD	1	0	0	0	0	0	0	0	0	0	1	0	1
	Total	4	2	0	0	1	0	1	0	0	0	6	2	8

AEI (Centre of RGIPT)

Sl. No.	Diploma	UR		EWS		OBC-NCL		SC		ST		Sub Total		Grand Total
		M	F	M	F	M	F	M	F	M	F	M	F	
1	Chemical Engineering	13	6	0	0	27	10	5	5	9	3	54	24	78
2	Petroleum Engineering	19	3	2	0	30	10	12	2	5	0	68	15	83
3	Mechanical Engineering	18	1	0	0	39	5	6	1	8	1	71	8	79
4	Electronics and Instrumentation Engineering	12	0	0	0	12	7	3	1	4	2	31	10	41
5	Fire and Safety Engineering	13	2	0	0	16	4	3	0	5	0	37	6	43
	Total	75	12	2	0	124	36	29	9	31	6	261	63	324

The Students admitted during the year included the following:

Unreserved	544
OBC	511
EWS	188
SC	202
ST	54
Foreign Students (included in Unreserved)	3

Annual Report 2022–2023

1- Year B.Tech. Students on roll

Sl. No.	Branch	2022	2021	2020	2019	Total
1	Chemical Engineering	55	12	18	64	149
2	Computer Science & Engineering	68	58	67		193
3	Electronics Engineering	57	19	31		107
4	Electrical Engineering (Major: E Vehicle Technology)	34				34
5	Information Technology	58	29			87
6	Mathematics and Computing	45	21			66
7	Petroleum Engineering	48	27	44	63	182
8	Chemical Engineering (Major: Renewable Energy Engineering)	14				14
9	Computer Science & Design Engineering	31				31
10	IDD in Computer Science & Engineering and Artificial Intelligent	37	25			62
11	Geo-Science and Engineering					0
Total		447	191	160	127	925

Diploma Students on roll

Sl. No.	Branch	2022		2021		2020		Sub Total		Grand Total
		M	F	M	F	M	F	M	F	
1	Chemical Engineering	14	9	24	7	30	17	68	33	101
2	Petroleum Engineering	23	5	32	4	36	11	91	20	111
3	Mechanical Engineering	24	3	33	3	37	5	94	11	105
4	Electronics and Instrumentation Engineering	6	3	17	1	14	9	37	13	50
5	Fire and Safety Engineering	13	0	17	1	20	5	50	6	56
Total		80	20	123	16	137	47	340	83	423

M.Tech. Students on roll

Sl. No.	Branch	2022		2021		Sub Total		Grand Total
		Male	Female	Male	Female	Male	Female	
1	M.Tech. in Petroleum Engineering	---	---	5	1	5	1	6
2	M.Tech. in Chemical Engineering	---	---	---	---			0
3	M. Tech. in Renewable Energy	2	1	9	2	11	3	14
4	M. Tech. in Power and Energy Systems Engineering	-	-	4	2	4	2	6
5	M. Tech. in Energy Science and Technology	-	-	6	1	6	1	7
6	M. Tech. in Electric Vehicle Technology	2	1	11	3	13	4	17
7	M.Tech in Data Science Specialisation in Energy	1	0			1	0	1
8	M.Tech in Artificial Intelligence Specialisation in Energy	0	0			0	0	0
Total		5	2	35	9	40	11	51

MBA Students on roll

Sl. No.	Branch	2022	2021	Total
1	Master of Business Administration	37	18	55
Total		37	18	55

Annual Report 2022-2023

PhD Students on roll

Sl. No.	Department/Centre	2022	2021	2020	2019	2018	2017	2016	2015	Total
1	Petroleum Engineering & Geoengineering	5	13	6	1	1				26
2	Chemical Engineering & Biochemical Engineering	8	8	11	2					29
3	Computer Science & Engineering	1	4		2	1			1	9
4	Mathematical Science	1	7		2	1	1			12
5	Management Studies	8	4	8	6	2	1	7		36
6	Science & Humanities	9	13	11	3	6	3			45
7	Electrical & Electronics Engineering	6	7		1	1				15
8	EIB	4								4
9	AEIS	5								5
10	Material Science and Engineering		2							2
Total		47	56	36	17	12	5	7	1	181

Number of students awarded scholarship Academic Year 2022-23

Sl. No.	Scholarship Name	UR	EWS	OBC-NCL	Minority	SC	ST	Total Scholarship Awarded
1	Uttar Pradesh Scholarship	31	---	34	2	10	---	77
2	Central Sector Scholarship of Top-Class Education for SC Students	---	---	---	---	22	---	22
3	National Fellowship and Scholarship for Higher Education of ST Students	---	---	---	---	---	3	3
4	Post Matric Scholarship to OBC – Assam	---	---	38	---	---	---	38
5	Post Matric Scholarship to SC – Assam	---	---	---	---	13	---	13
6	Financial Support to the Students of Ner for Higher Professional Courses (Nec Merit Scholarship)	2	---	2	---	---	---	4
7	Central Sector Scheme of Scholarship for College & University	1	---	2	---	---		3
8	Ishan Uday Special Scholarship Scheme for Ner	---	---	---	---	---	1	1
9	Post Matric Scholarship to Minorities CS	---	---	1	4	---	---	5
10	Mukhya Mantri Medhavi Vidyarthi Yojna (MMVY) Scholarship	11	---	5	---	---	---	16
10	Bihar Post Matric Scholarship	---	---	---	---	---	---	0
11	Engineering India Ltd.	---	---	---	---	10	---	10
12	RGIPT Merit-cum-Means Scholarship	41	5	30	---	1	---	77
13	Swami Dayanand Education Foundation Scholarship	3	---	---	---	---	---	3
14	Other State Scholarship (Jharkhand)	---	---	---	---	---	---	0
Total		89	5	112	6	56	4	272

Award of Medals & Prizes to students

Convocation Prizes

Medals & Prizes awarded to students at the 6th Convocation

For students graduating in 2022

- **Pranjal Maheshwari**
He is awarded President's Gold Medal for academic excellence amongst the graduates of all B. Tech. programmes in 2022
- **Siddharth Jain**
He is awarded Director's Gold Medal for outstanding all-round performance amongst the graduates of all B. Tech. programmes in 2022
- **Pranjal Maheshwari**
He is awarded RGIPT Institute Gold Medal for standing first in B. Tech. in Chemical Engineering examination 2022
- **Vidhu Gupta**
He is awarded RGIPT Institute Gold Medal for standing first in B. Tech. in Petroleum Engineering examination 2022
- **Sagarika Singh**
She is awarded RGIPT Institute Gold Medal for standing first in Master of Business Administration examination 2022
- **Praful Kant Dubey**
He is awarded RGIPT Institute Gold Medal for standing first in Master of Business Administration examination 2022
- **Fahad Khan**
He is awarded RGIPT Institute Gold Medal for standing first in M. Tech. in Petroleum Engineering examination 2022
- **Anand Venkitaraman**
He is awarded RGIPT Institute Gold Medal for standing first in M. Tech. in Renewable Energy examination 2022
- **Bhavasari Het Sandeepbhai**
He is awarded RGIPT Institute Gold Medal for standing first in M. Tech. in Energy Science and Technology examination 2022
- **Suraksha R**
She is awarded RGIPT Institute Gold Medal for standing first in M. Tech. in Electric Vehicle Technology examination 2022
- **Abhijeet Rathore**
He is awarded RGIPT Institute Gold Medal for standing first in M. Tech. in Power and Energy System examination 2022

Degree Recipients

- Department of Sciences & Humanities: 03 (PhD)
- Department of Mathematical Sciences: 03 (PhD)
- Department of Management Studies: 02 (PhD)
- Department of Computer Science & Engineering: 01 (PhD)
- Department of Chemical Engineering & Biochemical Engineering: 01 (PhD)
- Department of Petroleum Engineering & Geoengineering: 01 (PhD)
- Department of Chemical Engineering & Biochemical Engineering: 03 (M. Tech.)
- Department of Chemical Engineering & Biochemical Engineering: 55 (B. Tech.)
- Department of Petroleum Engineering & Geoengineering: 10 (M. Tech.)
- Department of Petroleum Engineering & Geoengineering: 53 (B. Tech.)
- Department of Management Studies: 27 (MBA)
- Energy Institute, Bengaluru: 42 (M. Tech.)

Medals & Prizes awarded to students of Assam Energy Institute, Sivasagar (2nd Convocation of the AEI, Sivasagar, as a part of 6th convocation of RGIPT)

- **Biplob Newar**
He is awarded President's Gold Medal for academic excellence amongst all Diploma programmes in 2022
- **Anuj Kumar Shah**
He is awarded Director's Gold Medal for outstanding all-round performance amongst all Diploma programmes 2022
- **Biplob Newar**
He is awarded AEI, Sivasagar, Assam (Centre of RGIPT) Institute Gold Medal for standing first in Diploma in Chemical Engineering programme for the year 2022
- **Sudipta Saikia**
He is awarded AEI, Sivasagar, Assam (Centre of RGIPT) Institute Gold Medal for standing first in Diploma in Petroleum Engineering programme for the year 2022
- **Mayur Pankhi Gogoi**
He is awarded AEI, Sivasagar, Assam (Centre of RGIPT) Institute Gold Medal for standing first in Diploma in Mechanical Engineering programme for the year 2022

Degree Recipients

- Department of Petroleum Engineering: 26
- Department of Chemical Engineering: 24
- Department of Mechanical Engineering: 23

Annual Report 2022–2023

Names of students/scholars who attended conferences/workshops/seminars and symposia abroad or in India (For Energy Institute Bengaluru, 2022-23) (as per Institute Annual report format)

S. No.	Name of Student	Roll No.	Conference/Seminar/Symposia/ Workshop	Date & Venue	Financial Assistance From
1	Kalidas P	21EB1RE15	World Energy Storage Congress 2022	December 18th 2022, Turkey (online mode)	RGIPT
2	Alok Kumar Chaudhary	21EB1EV02	G20 Y20 consultation meeting at KIIT University, Bhubaneswar	14-15 April 2023 KIIT University, Bhubaneswar	Self
3	Pratyush Anand	21EB1RE13	1st World Energy Storage Conference	December 18th 2022, Turkey (online mode)	RGIPT
4	Debmalya Sadhu	21EB1RE02	2nd International Conference on Recent and Advanced Composite Materials	22-24 February 2023, SRMSIT	Self
5	Debmalya Sadhu	21EB1RE02	National Conference on Perovskite Society of India Meet 2023	01-03 March 2023, IIT Roorkee	Self
6	Devansh Dattatreya	21EB1EE03	National Conference on Perovskite Society of India Meet 2023	01-03 March 2023, IIT Roorkee	Self
7	KM. Madhu Paswan	21EB1EE06	National Conference on Perovskite Society of India Meet 2023	01-03 March 2023, IIT Roorkee	Self
8	Mohit Dilip Borse	21EB1EE10	International Conference on Functional material for advance technology	2-4 January 2023, Central University of Kerala	RGIPT
9	Akshay Jain	20EB0001	NCCBS-2023 (Hybrid Mode)	25-26 March 2023, Veer Surendra Sai University of Technology	Self
10	Anandhi G	20EB0004	International Conference on Advancements and Key Challenges in Green Energy and Computing (AKGEC-2023)	24-25 February 2023, in Ajay Kumar Garg Engineering College, Ghaziabad UP	Self
11	Almas	20EB0003	5th International Conference on Environment, Resources and Energy Engineering (EREE 2023)	June 15-17, 2023 in Bangkok, Thailand.	Self
12	Anitesh Anand	21EB0002	4th International Conference on Communication, Devices and Computing (ICCDC 2023)	March 1-3, 2023 West Bengal, India	RGIPT

Chapter 14

Library

Year of Establishment: 2008

Introduction

As in any world class academic institution, library at Rajiv Gandhi Institute of Petroleum Technology is the core academic service centre. It is being developed as world class academic library & information centre in the field of petroleum science & technology. The central library of RGIPT is presently functioning in RG plaza of RGIPT. Its building is centralized air- conditioned, equipped with all such facility and service essential for its reader. It has a good reading environment & sufficient space for shelving of books and other reading materials. The bibliography details of its printed collection of books well as CDs & DVD are Computerized. The RGIPT library is having a strong special collection of books, standard & peer reviewed Journals- printed as well online related to the chemical, computer, management, electronics, mathematics & petroleum engineering etc. It has Internet facility to access the online & offline electronics resources available in the library.

Library Hours: 10:00 AM to 12:00 Mid-Night
During Exam time: 10:00 AM to 02:00 AM

Acquisition Unit: All unit merge between three library staff

Periodical Section

Printed Magazines and Journals	
1	American Scientist
2	Chemical Engineering
3	Frontline Magazine
4	Oil and Gas Journals
5	Geological Society of India
6	P C Quest
7	Mathematics Today
8	Sociological Bulletin
9	Outlook Magazine
10	Dew
11	Digit
12	Pratiyogita Darpan Magazine
13	Business India

14	Business Today
15	Reader's D
16	India Today
17	Harvard Business Review
18	The Economist
19	Frontline Magazine
20	The Week Magazine
21	B W Business World(+)

Database	
1	Sci-Finder (Chemical Abstract)
Standards (API,OISD,NFPAA)	
350	

E-Journals

Name of Publisher Online Journals	
1	One Petro
2	ACS (American Chemical Society)
3	Emerald Management
4	IEEE
5	MathSciNet

Research Support Tools	
I Thenticate – Turnitin: A plagiarism software	

Technical Service Unit:	All unit merge between three library staff
Circulation Unit	All unit merge between three library staff
Computer-Aided Reference Service	online public access catalog (OPAC)
Library Automation	Soul Software 2.0
Initiative for Digital Library	RFID, INFLIBNET Shodhganga Ph.D. theses, Membership E-shodhsindu
Total Numbers of Books	13399

Chapter 15

Student Activities (DoSA)

Gyanarpan: Project Amethi

The Gyanarpan initiative is actively engaged in RGIPT, Jais campus, Amethi. This program is dedicated to enhancing educational capacities, generating valuable learning resources, cultivating ethical and moral values, and refining higher education pursuits. The initiative operates its classes in established Gyanarpan centers across the Amethi District. Commencing on September 1, 2019, the project's primary goal is to provide education to selected students ranging from the class IX to class XII within the Amethi locale.

The core objective is to empower these students and equip them for various competitive examinations, such as NEET, IIT, CUET, as well as entrance tests for institutions like Navodaya Vidyalaya and esteemed government schools. Over 1200 underprivileged and exemplary students have been enrolled and have benefited significantly from this initiative. In a synchronized effort, RGIPT and HAL Korwa collaborated to provide a total of 200 students within the district with smartphones during the academic year of 2022-2023. This progressive initiative saw the distribution of these smart phones on the significant date of May 18, 2022.



Conduction of Mini marathon with a motto – “Run for Energy”

On the vibrant morning of May 20, 2022, the spirited students of RGIPT took to the streets to participate in

a dynamic mini-marathon, all united under the motivating motto: “Run for Energy.” This invigorating event aimed to not only promote physical fitness but also raise awareness about the importance of energy conservation. With fervour in their hearts and determination in their strides, the participants embarked on a journey that went beyond the miles they covered. Every step they took echoed the significance of responsible energy usage, reminding everyone of the collective responsibility to preserve our planet’s resources. The mini-marathon wasn’t just a race; it was a symbol of unity and purpose. As the students dashed through the course, their energy and enthusiasm served as a reminder that each individual action can contribute to a larger, more sustainable future. The event exemplified the proactive engagement of RGIPT students in advocating for a greener and more energy-efficient world. Through their commitment to this cause, they not only demonstrated physical prowess but also showcased their dedication to creating a positive impact on the environment.



Yoga Day celebration 2022

On June 21, 2022, the RGIPT Jais Campus came alive with the celebration of Yoga Day. Students, faculty, and staff gathered to embrace the ancient practice, uniting mind and body in a session of invigorating yoga postures and calming meditation. Led by experienced instructors, the event highlighted the

holistic benefits of yoga, fostering a sense of unity and well-being among participants. As the sun set on the day, the Yoga Day celebration at RGIPT Jais Campus left a lasting impression of tranquility and mindfulness among its community members.



Celebration of Swachhta Pakhwada- 2022

From July 1st to July 15th, 2022, the vibrant spirit of Swachhta Pakhwada infused the air at our institution. This fortnight of cleanliness and awareness activities saw a tapestry of initiatives, ranging from tree plantation drives that added a touch of green to our surroundings, to diligent pollution checks that underlined our commitment to a healthier environment. The rhythmic cadence of 'Prabhat Pheri' echoed through the early mornings, as students, faculty members and staffs took to the streets, spreading the message of cleanliness and responsibility. Swachhta Pakhwada wasn't just a series of events; it was a collective pledge taken by our community to make a positive impact on our environment, fostering a cleaner, greener, and more conscious future.



Independence Day, 2022 and Republic Day, 2023

The RGIPT Jais campus was ablaze with patriotic fervour as it celebrated Independence Day 2022 and Republic Day 2023 in a grand manner. During both the events, our Honourable Director engaged with students, faculty, and staff, infusing renewed enthusiasm with his motivational address. His words ignited a fresh sense of purpose and dedication among all attendees. The enthusiastic participation of RGIPT

students added a vibrant touch to the celebrations, showcasing their unwavering commitment to promoting the nation's motto of 'Har Ghar Tiranga' (Every Home a Tricolour). The campus buzzed with cultural events organized by the students that highlighted the significance of our tricolour flag as a symbol of unity, diversity, and progress. The crowning glory was the spirited 'Prabhat Pheri' organized by the students, where the dawn witnessed a sea of fluttering tricolours, embodying the collective patriotism and deep love for the nation. These celebrations not only rekindled our love for the country but also served as a powerful reminder of the responsibilities we hold in upholding the values that our flag represents.



Diwali Celebration 2022

RGIPT orchestrated a unique Diwali celebration on October 24, bringing together students of RGIPT and children from neighbouring villages. This event aimed to create a memorable and inclusive Diwali experience for all, fostering a sense of togetherness and festive spirit that will be cherished by everyone involved.



Conduction of "Intramural Sports meet 2022"

The RGIPT students at the Jais campus demonstrated their remarkable organizational skills and vibrant spirit through the highly successful Intramural Sports Meet of 2022. This student-led initiative exemplified the institute's commitment to fostering a well-rounded educational experience. With meticulous planning and enthusiastic participation, the event showcased a diverse range of sports and activities that brought together students in a celebration of athleticism and camaraderie.

Annual Report 2022–2023

The Intramural Sports Meet not only provided a platform for healthy competition and skill development but also highlighted the sense of community and unity that defines the RGIPT ethos. Through their dedication, the organizing students created an unforgettable event that underscored the importance of sports in promoting both physical well-being and a strong sense of belonging within the campus community.



Conduction of 'Intramural Cultural Event 2022'

The 'Intramural Cultural Event,' guided by the Cultural Council, took place on December 10, 2022, featuring three rounds of engaging activities. The initial round, an Online Treasure Hunt, involved over 250 participants from the B Tech first year batch, grouped into teams of five via a Google form. The second part of this round consisted of intriguing online questions, leading to the selection of 20 teams for the subsequent round. Round 2 encompassed Slogan Writing, where teams created slogans inspired by provided images within 30 minutes. Eight teams proceeded to the final round, chosen by judges from the Cultural Council. The ultimate round was a playful activity called 'Squid Game,' involving backward movement during the music's pause and play. Four races were conducted, and

the winners advanced to a final race. The overall winners emerged as follows: 1st - Ishika Pandey (22CS3029), 2nd - Nandini Bhalla (22CS2002), and 3rd - Aryan Kumar Singh (22IT3010). This event showcased talent and camaraderie, making it a memorable success.

Saraswati Puja Celebration



The Cultural Council of RGIPT orchestrated a successful Saraswati Pooja on January 26th, on the same footprint of previous year. Approximately 250 students from RGIPT, Faculty members and staffs participated in the morning rituals, which included Pooja, Hawan, Puspanjali, and Prasad distribution near Vivekananda Sabhagar. The serene morning event concluded around 1:00 PM. An evening Sandhya Aarti at 7 PM enhanced the occasion's memorability, with collective participation in chanting holy mantras. The evening festivities wrapped up by 8 PM, capturing memorable moments in photos. Following the worship, Visarjan was scheduled for 8 AM the next day, taking place at the faculty housing pond. Photographs captured the essence of these cherished moments.



Chapter 16

Training and Placement

Introduction

The Training & Placement Office facilitates the process of placement of students passing out from the Institute besides collaborating with leading organizations and institutes in setting up of internship and training program of students. The office liaises with various companies and corporate houses etc which conduct campus interviews and select graduate and post-graduate students from various disciplines. The Training & Placement Office provides the infra-structural facilities to conduct group online and offline discussions, tests and interviews besides catering to other logistics. The T&P Cell interacts with industries, of which nearly 30 companies visit the campus for holding tests and campus interviews.

The placement season runs through the course of the year commencing the last week of October

through to May. Pre-Placement Talks are also conducted in this regard as per mutual convenience. Job offers, dates of interviews and selection of candidates are announced through the Training & Placement Office. The Training and Placement Cell is headed by Professor In-Charge. The Professor In-charge Training and Placement is supported by two committees i.e., (i) Training and Placement Advisory Committee (TPAC) and (ii) Training and Placement Committee (TPC). TPAC is comprised of Heads of all Department and Chaired by Professor In-charge Training & Placement Cell. TPC is comprised of faculty members from concerned departments and representatives of students from the under-graduate and post-graduate engineering and management programs. The placement process is driven by the need of students and companies. Policies are student and company friendly.

DETAILS OF PLACEMENT			
	Jais Campus	Assam Energy Institute (AEI)	Energy Institute Bengaluru (EIB)
Starting Date of Placements	04.10.2022	10.03.2023	03.10.2022
Total No. of Companies Visited for Placements	29	06	04
Total Job Offers Made	97	128	05
Students Receiving 2 Offers	06	25	02
Students Receiving More Than 2 Offers	01	NIL	01
Students Receiving More Than 3 Offers	NIL	NIL	NIL
Pre-Placement Offers	01	NIL	NIL
Highest Placement Package Offered	INR 22.00 LPA	INR 1.80 LPA	INR 9.00 LPA
Lowest Placement Package Offered	INR 4.08 LPA	INR 1.44 LPA	INR 3.70 LPA
Average Package for Eligible Students	INR 10.21 LPA	INR 1.52 LPA	INR 5.20 LPA

Total Eligible Students for Placements

Name of Department/School	B. Tech	M. Tech	MBA	Diploma
Petroleum Engineering (at Jais Campus)	61	06	N.A.	N.A.
Chemical Engineering (at Jais Campus)	60	N.A.	N.A.	N.A.
Management Studies (at Jais Campus)	N.A.	N.A.	18	N.A.

Annual Report 2022–2023

Name of Department/School	B. Tech	M. Tech	MBA	Diploma
Mechanical Engineering (at AEI)	N.A.	N.A.	N.A.	40
Chemical Engineering (at AEI)	N.A.	N.A.	N.A.	41
Petroleum Engineering (at AEI)	N.A.	N.A.	N.A.	41
Electronics and Instrumentation Engineering (at AEI)	N.A.	N.A.	N.A.	17
Fire and Safety Engineering (at AEI)	N.A.	N.A.	N.A.	24
Energy Science and Technology (at EIB)	N.A.	07	N.A.	N.A.
Renewable Energy (at EIB)	N.A.	11	N.A.	N.A.
Power and Energy Systems Engineering (at EIB)	N.A.	06	N.A.	N.A.
Electric Vehicle Technology (at EIB)	N.A.	14	N.A.	N.A.
TOTAL	121	44	18	163

Total Eligible Students in the year 2022-23

Centers	Number of Students
Jais Campus	145
Assam Energy Institute	163
Energy Institute Bengaluru	38
TOTAL	346

Details of the number of students placed during 2022-23

Name of Department/School	B. Tech	M. Tech	MBA	Diploma
Petroleum Engineering (at Jais Campus)	32	NIL	N.A.	N.A.
Chemical Engineering (at Jais Campus)	42	N.A.	N.A.	N.A.
Management Studies (at Jais Campus)	N.A.	N.A.	15	N.A.
Mechanical Engineering (at AEI)	N.A.	N.A.	N.A.	39
Chemical Engineering (at AEI)	N.A.	N.A.	N.A.	25
Petroleum Engineering (at AEI)	N.A.	N.A.	N.A.	29
Electronics and Instrumentation Engineering (at AEI)	N.A.	N.A.	N.A.	9
Fire and Safety Engineering (at AEI)	N.A.	N.A.	N.A.	26
Energy Science and Technology (at EIB)	N.A.	03	N.A.	N.A.
Renewable Energy (at EIB)	N.A.	06	N.A.	N.A.
Power and Energy Systems Engineering (at EIB)	N.A.	05	N.A.	N.A.
Electric Vehicle Technology (at EIB)	N.A.	07	N.A.	N.A.
TOTAL	74	21	15	128

Total No. of Students Placed in the year 2022-23

Centers	Number of Students
Jais Campus	89
Assam Energy Institute	128
Energy Institute Bengaluru	21
TOTAL	238

Chapter 17

International and Alumni Relations

Introduction

The purpose of RGIPT Alumni association is to foster the ties between alumni, the community and RGIPT and to motivate and engage alumni with the parent organization.

Mission

The mission of RGIPT Alumni association shall be

- Reconnect alma mater to their alumni
- Providing a vibrant forum for interaction and networking among alumni
- Mentoring role to current students
- Associating with RGIPT for its perspective plans and fund-raising activities
- To attain a global recognition and exposure for RGIPT
- Organizing events that facilitate reunification of alumni and present students of RGIPT
- Involvement in parent institute infrastructure and curriculum development

Activities

- RGIPT Alumni Cell has organized an online interaction with its Alumni of various batches and Head of the Departments, Faculty members and with Honorable Director, RGIPT related to training and placement opportunities for RGIPT students. (17th December 2022)
- The Department Level Committees have been constituted (2023) namely, Alumni Engagement and Mentorship Committee to involve alumni for their valuable feedback, suggestions, and to discuss internship, projects and placement opportunities for our students.

- To recognize our Alumni's success, creativity, and unique innovation in their profession, Alumni Association has introduced "Young Alumni Achievement Award". The nominations for this award have been received.
- To make a strong network with our alumni, Alumni cell has introduced Alma connect portal which is an alumni networking platform. Till now, we have had 500 alumni connected with the platform.

Activities

- Online Interaction with Mr. Rahul Jain (Alumni-2012-14; Department of Management, RGIPT) held where he shared his valuable insights on Global LNG Trade and its market || December 17, 2022
- Online Alumni Interaction held with Mr. Shaury Maheshwari, System Analyst (TCS), batch 2018-20 Alumnus of Department of Management Studies, RGIPT, with MBA students on 7th January 2023. Agenda: Prepare yourself for Industry.
- Online Alumni Interaction held with Mr. Harsh Agrawal (batch 2018-20) for disseminating the knowledge expertise he gained at Glencore and McKinsey Company. The interaction was scheduled for MBA students for their Mock Interview before Placement. Date: February, 2023
- An online interaction with Mr. Vivek Kumar (Alumnus (2016-18), Department of Management, RGIPT) shared thrilling anecdotes from his corporate career with MBA students || December 23, 2022
- An online interaction with Ms. Himi Shrivastava (Alumni-2012-14) held where she shared interesting insights on her role in the organization and the work that Glencore does in the oil and gas sector with MBA students.

Chapter 18

Research and Development

List of Ongoing Sponsored Research Projects

S. No.	Title of the Project	Period	Funding Agency	Sanctioned Amount (in Rs.)	Principal Investigator/ Co-Ordinator
1	Development of Material Application for Artificial photosynthesis or Sustainable Production of Energy	5yr	DST	11,240,000	Dr. Shikha Singh
2	Resolving the catalytic hotspots of synthesized hybrid nano catalysts at single Turnover resolution	3yr	SERB-DST	3,227,400	Dr. Debashish Panda
3	luminescent carbon Nanodots: A fundamental understanding & potential application	1yr	CSIR	520,000	Dr. Debashish Panda
4	Membrane Solvent Extraction processes for Extracting lanthanum & cerium metals from Leach solutions of Monazite Sands and recyclable Consumer Products	1Yr	SERB-DST	3,818,878	Dr. G.K. Agrahari
5	Performance Evaluation of a floating biogas plant by integrated semitransparent photo-voltaic thrall (SPVT) collectors (Bio-SPVT)	2yr	PCRA	2,500,000	Prof. A. S.K. Sinha
6	Effective strategies to design and develop on-demand carbon-based metal oxide flexible supercapacitors for next generation energy storage devices	5 yr.	DST	11,240,000	Dr. G.R. Dillip
7	Flue Gas Decarbonization Using Novel Green Solvents	3 yr.	CST_U.P.	1,194,000	Dr. Rakesh Kumar
8	Numerical Analysis and Simulations of Compressible / Incompressible Euler and Navier- Stokes Equations: Theoretical and Computational Studies	5 yr.	DST	2,108,800	Ms. Jyoti (Dr. Manoj Kr. Rajpoot).
9	Groundwater Exploration of drought - stricken Bundelkhand region using integrated geophysical methods	1 yr.	SEG	472,973.00	Dr. Satish Kumar Sinha
10	Metal- Organic Frameworks - Derived Non-Precious- Metal-Based Nanostructured Materials for Electrocatalysis	3 yr.	CSIR	1,944,000	Dr. Arshad Aijaz
11	Development of Electrodes & Modular Compact Membrane Less Electrolyser set up of for sustainable H ₂ production from sea/tap/ground water	2 yr.	DST	25,328,000	Prof. A. S. K. Sinha
12	Understanding the operational Dynamics of single screen Movie Theatres in an Indian Small Town: A Sociology Analysis of Movie Theatres in Rae Bareli, Uttar Pradesh	1 yr.	NRC-ICSSR	99,000	Dr. Anirban Mukherjee
13	Readiness and interest of India refineries for adopting AI/ML technology for operations	1 yr.	DSIR	2,309,000	Dr. Milan Kumar
14	Investigation of magnetic structure and magnetoelectric coupling of designed 4d/5d-4f coupled strongly correlated systems	3 yr.	UGC-DAE CSR	45,000	Dr. Tathamay Basu
15	Study of Carbon dioxide storage and utilization for enhanced oil recovery in Indian oil fields using polymer-nanoparticle assisted carbonated water flooding.	3 yr.	SERB-DST	4,864,320	Dr. Shivanjali Sharma
16	Role of Non-Destructive test in categorizing Weathering state of Anisotropic rocks.	5 yr.	DST	2,127,400	Mr. Divyanshu Singh (Dr. Hemant Kumar Singh).
17	Syngas formation from direct gas phase co-electrolysis of CO ₂ and H ₂ O at high current density using amine functionalized electrodes and elevated pressure	2 yr.	SERB-DST	2,568,500	Dr. Karan Malik

Annual Report 2022–2023

S. No.	Title of the Project	Period	Funding Agency	Sanctioned Amount (in Rs.)	Principal Investigator/ Co-Ordinator
18	A Proposal Color Less Fully Transparent & Flexible Organic Thin-Film Transistors for Invisible or See-Through Electronics Application	2 yr.	SERB-DST	2,808,300	Dr. Abhishek Kumar Singh
19	Investigating the optimal electricity generation mix for India using Fuzzy portfolio optimization approach.	3 yr.	DST- SERB (MATRICS)	6,60,000	Dr. Mohd. Irfan
20	Closed Loop Control for Parabolic type Problems: Theory and Computation	2yr	SERB-DST	1,375,000	Dr. Sudeep Kundu
21	Scalable Strategies Towards Tough & Functional Hydrogels through Controlling of the Chain Conformation and Entanglement followed by Sequential Networking for Soft Electronics Applications	3 yr.	SERB-DST	4,500,000	Prof. U. Ojha
22	Synthesis and Evaluation of Nanocomposite-Pour Point Depressants (N-PPDs) to Inhibit Wax Deposition and Improve the Flow Properties of Indian Waxy Crude Oils for Pipeline Transportation	3 yr.	SERB-DST	2,358,400	Dr. Shailesh Kumar
23	Thermal Energy Storage for Food/Grain Drying with CST/RE to Lower Pollution	1yr	DST	5,915,615	Prof. Atul Sharma (Co-PI)
24	Liquid-liquid flow through small diameter conduits – Enhanced Mass Transfer and Kinetic study	5yr	CSIR	1,775,520	Dr. K.G. Biswas
25	Enhanced Para Xylene separation from Xylene isomers by reverse osmosis-based Membrane Assisted Crystallization	2yr	CSIR	455,000	Dr. V. S. Sistla
26	Evaluation and Impact Assessment of MANF	4month	MoMA	2,310,000	Dr. P. K. Parida
27	Design and Investigation of Magnetoelectric Materials-an emerging route in data-storage devices	2 yr.	SERB-DST	3,315,400	Dr. Tathamay Basu
28	Mechanism of Carbon storage for enhanced oil recovery and net-zero scheme in oilfields of Cambay basin	3 yr.	SERB-DST	2,308,150	Dr. Tushar Sharma
29	Fabrication of Hybrid Ionic Electroactive Polymers- based Low-Powered, High- performance Soft Actuators for Soft Robotics Applications.	2 yr.	SERB-DST	2,495, 900	Dr. Vipin Amoli
Total			Rs. 102,728,656/-		

List of Ongoing Industrial Consultancy and Testing Projects

S. No.	Title of the Project	Period	Sponsoring Agency	Sanctioned Amount (in Rs.)	Lead PI
1	Modelling of a Technique for conversion of Industrial wastewater to commercial Product	1 yr.	M/S Siddheswari Cotton Mill	750,000	Dr. Susham Biswas
2	Corrosion in the biogas equipment and Biogas production	3 yr.	Geo Engineers Pvt. Ltd.	1,600,000	Dr. Deepak Dwivedi
3	3D Geo-mechanical Model Development for Bali Mara Field	6 months	Oil India Ltd.	1,843,000	Prof. Satish Kumar Sinha
4	Single - step Silica Nanofluids to enhance Mechanical properties, Microstructure refinement and as a Shale Stabilizer for cement slurries	3 yr.	IDT-ONGC Dehradun	2,610,355	Dr. Tushar Sharma
5	Organic Petrography, Biostratigraphy and Palynology Study of Shales of well Sadiya-1 of Oil India Limited	1 yr.	Oil India Ltd.	1,979,120	Prof. Alok Kumar Singh
6	A study on hydrogen industry competitiveness in India: Role of Northeastern States	1yrs	Oil India Ltd.	956,000	Prof. Sanjay Kumar Kar
7	Study and one-step solution for downhole problems of Oil India Limited using multi-functional drilling fluid additive	2yrs	Oil India Ltd.	1,992,400	Dr. Shivanjali Sharma
8	Geoscientific Data Analysis of Ganga-Punjab and Vindhyan Basin	6 Months	DGH	1,166,000	Dr. Satish Kumar Sinha
9	Development of surfactant-based drag reducing agents for transportation of asphaltic crude oils through pipelines	6 Months	HMEL	1,092,000	Dr. Shivanjali Sharma
Total			Rs. 13,988,875/-		

Annual Report 2022-2023

List of Ongoing MOU With Other Educational Institute

Sl.No	MOUs	Starting Date	Valid till	Nature of MOU
1	NTPC School of Business	02.07.2019	01.07.2024	Research and Academic
2	CSIR-Indian Institute of Petroleum Dehradun	04.12.2019	04.12.2024	Research and Academic
3	Texas A&M University at Qatar	08.10.2020	07.10.2025	Research and Academic
4	IIT Bombay	09.09.2019	08.09.2024	Research and Academic
5	CSIR-Central Institute of Mining and fuel research Dhanbad	10.10.2019	09.10.2024	Research and Academic
6	Persian Gulf University	11.06.2020	10.06.2025	Research and Academic
7	Edith Cowan University Australia	11.07.2020	10.07.2025	Research and Academic
8	Indian Institute of Chemical Engineers	14.04.2022	14.04.2027	Research and Academic
9	IIT Roorkee	17.09.2019	16.09.2024	Research and Academic
10	Gujrat Energy Research and Management Institute (GERMI)	17.09.2022	17.09.2025	Research
11	Indian Institute of Information Technology Allahabad	18.12.2019	18.12.2024	Research and Academic
12	University Teknologi Brunei	19.09.2022	18.09.2027	Research and Academic
13	CSIR- Northeastern Institute of Science and Technology Jorhat, Assam	23.09.2022	22.09.2027	Research
14	Northern (Arctic) Federal University named after M.V. Lomonosov	28.02.2022	27.02.2027	Research and Academic
15	CSIR- Indian Institute of Chemical Technology Hyderabad	28.08.2019	29.08.2024	Research and Academic
16	Curtin University Malaysia	28.08.2020	27.08.2025	Research and Academic
17	IIT Kanpur	29.08.2019	28.08.2024	Research and Academic
18	IIT Guwahati	30.10.2019	29.10.2024	Research and Academic

Details of MoUs

S.No	MOU	Starting Date	Valid till	Nature of MOU
1	OIL INDIA Ltd.	01.01.2021	01.01.2026	Research
2	NASSCOM (National Association of Software and Service Companies)	01.11.2022	01.11.2023	Research
3	HAL Gyan Arpan	05.02.2020	04.02.2025	Research
4	Cholamandalam MS Risk Service limited	10.06.2020	09.06.2023	Research
5	Algo8.Inc Canada	14.08.2020	13.08.2025	Research
6	MG (Morris Garages)	19.01.2023	19.01.2024	Research
7	Hindustan Petroleum Corporation Limited	22.07.2022	01.07.2025	Research
8	IOCL	25.02.2022	04.03.2025	Research
9	IOCL	26.07.2019	25.07.2024	Research
10	Bharat Heavy Electricals limited (BHEL)	27.05.2021	26.05.2026	Research
11	Institute of Drilling Technology, ONGC, Deh-radun	27.05.2022	26.05.2027	Research
12	Mangalore Refinery and Petrochemicals limited	27.12.2021	27.12.2026	Research

Annual Report 2022-2023

13	Aeris Communication India Pvt. Ltd.	31.03.2023	30.03.2025	Research
14	PPAC (Petroleum planning and analysis cell.)	31.03.2023	30.03.2026	Research
15	NTPC School of Business	02.07.2019	01.07.2024	Research and Aca-demic
16	CSIR-Indian Institute of Petroleum Dehradun	04.12.2019	04.12.2024	Research and Aca-demic
17	Texas A&M University at Qatar	08.10.2020	07.10.2025	Research and Aca-demic
18	IIT Bombay	09.09.2019	08.09.2024	Research and Aca-demic
19	CSIR-Central Institute of Mining and fuel re-search Dhanbad	10.10.2019	09.10.2024	Research and Aca-demic
20	Persian Gulf University	11.06.2020	10.06.2025	Research and Aca-demic
21	Edith Cowan University Australia	11.07.2020	10.07.2025	Research and Aca-demic
22	Indian Institute of Chemical Engineers	14.04.2022	14.04.2027	Research and Aca-demic
23	IIT Roorkee	17.09.2019	16.09.2024	Research and Aca-demic
24	Gujrat Energy Research and Management Insti-tute (GERMI)	17.09.2022	17.09.2025	Research
25	Indian Institute of Information Technology Al-lahabad	18.12.2019	18.12.2024	Research and Aca-demic
26	University Teknologi Brunei	19.09.2022	18.09.2027	Research and Aca-demic
27	CSIR- Northeastern Institute of Science and Technology Jorhat, Assam	23.09.2022	22.09.2027	Research
28	Northern (Arctic) Federal University named af-ter M.V. Lomonosov	28.02.2022	27.02.2027	Research and Aca-demic
29	CSIR- Indian Institute of Chemical Technology Hyderabad	28.08.2019	29.08.2024	Research and Aca-demic
30	Curtin University Malaysia	28.08.2020	27.08.2025	Research and Aca-demic
31	IIT Kanpur	29.08.2019	28.08.2024	Research and Aca-demic
32	IIT Guwahati	30.10.2019	29.10.2024	Research and Aca-demic

Sponsored Project 2022-23

S. No.	Principal Investigator/ Co-Ordinator	Title of the Project	Sponsoring Agency	Period	Sanctioned Amount
1	Dr. Milan Kumar	Readiness and interest of India refineries for adopting AI/ML technology for operations	DSIR	1 Yr.	2,309,000
2	Dr. Tathamay Basu	Investigation of magnetic structure and magne-toelectric coupling of designed 4d/5d-4f cou-pled strongly correlated systems	UGC-DAE CSR	3 Yr.	45,000
3	Dr. Deepak Dwivedi	Corrosion in the biogas equipment and Biogas production	Geo Engineers Pvt. Ltd.	3 Yr.	1,600,000
4	Dr. Roopa Manjunatha	Design and Developing of Aerostat for Surveil-lance	KSCST	4 m	10,000
5	Dr. Shivanjali Sharma	Study of Carbon dioxide storage and utilization for enhanced oil recovery in Indian oil fields using polymer-nanoparticle assisted carbonat-ed water flooding.	SERB-DST	3 Yr.	4,864,320
6	Mr. Divyanshoo Singh	Role of Non-Destructive test in categorizing Weathering state of Anisotropic rocks.	DST	5 Yr.	425,480

Annual Report 2022-2023

S. No.	Principal Investigator/ Co-Ordinator	Title of the Project	Sponsoring Agency	Period	Sanctioned Amount
7	Dr. Satish Kumar Sinha	3D Geo-mechanical Model Development for Bali Mara Field	Oil India Ltd.	6 m	1,843,000
8	Dr. Tushar Sharma	Single - step Silica Nanofluids to enhance Me-chemical properties, Microstructure refinement and as a Shale Stabilizer for cement slurries	IDT-ONGC Dehradun	3 Yr.	2,610,355
9	Dr. Karan Malik	Syngas formation from direct gas phase co-electrolysis of CO ₂ and H ₂ O at high current density using amine functionalized electrodes and elevated pressure	SRG, SERB(DST)	2 Yr.	2,568,500
10	Prof. Alok Kumar Singh	Organic Petrography, Biostratigraphy and Pal-ynology Study of Shales of well Sadiya-1 of Oil India Limited	Oil India Limited, Dilijan	1 Yr.	1,979,120
11	Dr. Abhishek Kumar Singh	A Proposal Color Less Fully Transparent & Flex-ible Organic Thin-Film Transistors for Invisible or See-Through Electronics Application	SERB	2 Yr.	2,808,300
12	Dr. Deepak Dwivedi	Consultancy Project for Setting-up the state -of-the-art laboratory in Chhattisgarh Environment Conservation Board (CECB), Government of Chhattisgarh and for providing training to staff members.	Chhattisgarh Environment Conservation Board (CECB), Government of Chhattis-garh	Till Termination	
13	Dr. Mohd. Irfan	Investigating the optimal electricity generation mix for India using Fozzy portfolio optimiza-tion approach.	DST- SERB (MATRICS)	3 Yr.	6,60,000
14	Dr. Sudeep Kundu	Closed loop control for Parabolic type Problem: Theory and Computation	DST- SERB	2 Yr.	1,322,750
15	Dr. Tathamay Basu	Design and Investigation of magnetoelectric materials - an emerging route in data- storage devices	SERB	2 Yr.	3,315,400
16	Dr. Vipin Amoli	Fabrication of Hybrid Ionic Electroactive Pol-ymers-based Low- Powered, High- perfor-mance Soft Actuators for Soft Robotics Applica-tions	DST- SERB	2 Yr.	2,495,900
17	Dr. U. Ojha	Scalable Strategies Towards Tough & Function-al Hydrogels through controlling of the chain confirmation and Entanglement followed by sequential network in for soft Electronics.	SERB	3 Yr.	3,986,400
18	Dr. Tushar Sharma	Mechanism of Carbon storage for enhanced oil recovery and net-zero scheme in oilfields of Cambay basin	DST-SERB In-dia	3 Yr.	2,308,150
19	Dr. Satish Kumar Sinha	Geoscientific Data Analysis of Ganga-Punjab and Vindhyan Basin	DGH	6 m	1,166,000
20	Dr. Shailesh Kumar	Synthesis and Evaluation of Nanocomposite-pour point Depressants to Inhibit Wax Deposi-tion and improve the flow properties of Indian Waxy crude Oils for Pipeline Transportations.	SERB	3 Yr.	2,468,400
21	Dr. Shivanjali Sharma	Development of surfactant-based drag reducing agents for transportation of asphaltic crude oils through pipelines	HMEL	6 m	1,092,000
Total					39,218,075

Inhouse Sanctioned Project 2022-23

S. No.	Principal Investigator/ Co-Ordinator	Title of the Project	Sponsoring Agency	Sanctioned Amount
1	Dr. Karthik Babu NB	Development of energy-efficient and high-strength polymer composite using the textile waste for auto-mobile applications	2 Years	1,000,000.00
2	Dr. Chinmayee Hazarika	Reliability Evaluation for below 20nm FinFET- based SRAM in the presence of Resistive Defects using TCDA technology for obtaining and improved and energy efficient processor	2 Years	1,000,000.00
3	Dr. Debashis Panda	Equipment and accessories for research purpose.	1 year	1,400,000.00
4	Dr. Satish Kumar Tiwari	Modeling the Degradation and Conservation of Ma-rine Ecosystem: Effect of Harmful Algal Blooms	2 Years	340,000.00
5	Dr. Rakesh Kumar	Procurement of VCR Diesel Engine set up	1 year	1,362,900.00
6	Dr. Nimisha Raghuvanshi	Spatial variability of Petro physical parameters in upper assam and northeastern region of India	2 Year	350,000.00
7	Dr. Vivek Kumar	Application of aspen in corrosion of materials/biogas production.	2 Year	300,000.00
8	Dr. Supriya Pulipaka	Silicon with doped soft carbon as high-performance anodes for LIBs	2 Year	2,000,000.00
9	Dr. Arun Kumar	Development of carbon fiber based on membrane and filtration system for oil - water separation under continuous flow	2 Year	1,000,000.00
10	Dr. Shravan kumar Trivedi	Prediction of intention to purchase and re-purchase the energy efficient home appliances: Evidence using Explainable	2 Year	500,000.00
11	Dr. Santosh Kumar Ver-ma	Parameter Extraction of solar photovoltaic module using evolutionary optimization algorithm	2 Year	522,000.00
12	Dr. Hakeem Niyas U.S.	Ageing assessment and ROI investigation of Automo-tive Lithium-Ion Battery for second Life Microgrid Battery Energy Storage System application.	2 Year	1,800,000.00
13	Dr. Shailesh Kumar, Dr. Amit Kumar, Dr. Tushar Sharma, Dr. Hemant Kumar Singh	Investigation of Modification of CO2 Based EOR Slugs for Geological Sequestration in Mature Oil Fields.	2 Year	2,500,000.00
14	Dr. U. Ojha	Thermal catalytic Conversion of CO2 to polymers and CNT.	18 Month	475,000.00
15	Dr. Naveen Mani Tripa-thi	Development of flow Regime map for bends in posi-tive pressure dense phase pneumatic conveying	2 years	995,000.00
16	Dr. Daya Gupta	AL/ML Based internet of Energy (IOE) and its Post- Quantum Security and Privacy Management in Social Smart Grid Networks (SGNs)	3 Years	920,000.00
17	Dr. Arshad Aijaz	Non-Precious Metal ORR Catalysts: Assembling and Demonstration of 100,500, and 1000 W PEM Fuel Cell.	2 Year	1,250,000.00
18	Dr. Gargi Srivastava	Developing of a model for instrument health moni-toring with a setup of transducer, camera array and processing of image using AI/ML techniques.	3 Year	100,000.00
19	Dr. Amit Saxena	Development machine learning & sensor-based pro-totype of drill bit dull grading for the drilling industry	2 years	340,000.00
20	Dr. Roopa Manjunatha	Smart Sensor-Based Ev Fire Protection System	2 Year	1,000,000.00
21	Dr. Shikha Singh	Portable Device for Ammonia Sensing	1 Year	400,000.00
Total				19,554,900.00

Detail of PDF

S. No.	Name
1	Maharshi Yadav
2	Om Veer Singh

Chapter 19

Assam Energy Institute, Sivasagar, Assam

Year of Establishment: 2017

Head: Mr. Chinmoy Jit Sarma (w.e.f. September'2017)

Academic Programmes

The institute has been offering undergraduate since 2017 from Assam Energy Institute, Sivasagar (Centre of RGPT, Jais, Amethi). In the admission to all these programmes, Institute also provides opportunities to socially weaker sections of society i.e. SC/ST/OBC/PwD as per Government of India norms. The detailed capacity in each programmes are as follows:

Diploma Programme

Sl. No.	Programmes	No. of Seats
1	Diploma in Chemical Engineering	60
2	Diploma in Petroleum Engineering	60
3	Diploma in Mechanical Engineering	60
4	Diploma in Electronics and Instrumentation Engineering	40
5	Diploma in Fire and Safety Engineering	40

PhD Programme (2021)

Sl. No.	Programmes	No. of Seats
1	PhD in Petroleum Engineering	02
2	PhD in Mathematics	02
3	PhD in Electronics and Instrumentation Engineering	01

Admission in Undergraduate Programmes (Diploma)

Admission to all the diploma programmes will be made in the beginning of odd semester of each session, i.e. July-August each year, at the first-year level, through entrance test: Assam Polytechnic Admission Test (PAT) conducted by RGPT.

Minimum Eligibility Criteria: For Diploma courses in Engineering, the candidate must fulfill the following conditions:-

- He/She must qualify the Polytechnic Admission Test (PAT-2022) conducted by Director of Technical Education, Assam (DTE) to take admission into Diploma Courses offered by Assam Energy Institute, Sivasagar.
- He/She must pass the HSLC or its equivalent examination in a single sitting (without grace marks in Science and Mathematics) with Mathematics and Science as compulsory subject.

- Reservations will be as per the rules of the Govt. of India.

The admission in diploma was successfully completed in September 2022 with joining of 117 students. Out of these, 63 students belong to GEN category, 1 student belong to GEN (EWS) category, 24 students belong to OBC (NCL) category, 09 students belong to SC category and 20 students belong to ST category. There were 20 girl students, who took admission in diploma programmes. The admission to diploma programme has been provided on the rankings of candidates in PAT merit list- 2022. The process of admission started in the month of September 2022 with inviting applications from PAT qualified. All received applications have been verified with PAT Rank List, received from DTE, Assam. 1st Semester Fee for Diploma for GEN/OBC/EWS was Rs. 32,700/- and for SC/ ST/PWD was Rs. 7,700/-. Finally, 117 students took admission in diploma programmes and their final opening and closing marks have been presented as under:

Category	Opening Marks of PAT				
	PE	CE	ME	EIE	FSE
GEN	57	84	52	56	26
EWS	0	0	0	0	34
OBC-NCL	45	41	55	42	52
SC	40	67	36	46	28
ST	40	38	44	35	34

Category	Closing Marks of PAT				
	PE	CE	ME	EIE	FSE
GEN	34	23	39	22	23
EWS	0	0	0	0	0
OBC-NCL	37	21	33	33	31
SC	31	0	32	22	25
ST	34	30	33	31	24

Annual Report 2022-2023

Scholarship details for F.Y. 2022-23

- 1.1 Scholarships details: - Assam Energy Institute's Merit cum Means Category Scholarship for AY 2022-2023: 12 students
- 1.2 Types of Medals: - Academic: 5 students
- 1.3 Different types of Stipends: - Post Metric Scholarship for ST, SC, OBC and Minority Assam; and North Eastern Council of Merit Scholarship
- 1.4 Number of students' application forwarded by Institute for different types of scholarship from April, 2022 to March, 2023: - 80 Nos.

Administration

Faculty/Staff members in Position

Faculty Members	23
Visiting Faculty	11
Group A Staff	1 (Resigned)
Technical Staff	6
Administrative Staff	4

Faculty & Staff Members appointed during 2022-23

Visiting Faculty	11

Placements (2021-22)

Details of Placement	
Starting Date of Placements	March 10, 2023
Total No. Of Companies Visited for Placements	6 nos
Total Job Offers Made	128
Students Receiving 2 Offers	25
Highest Placement Package Offered	INR 1.8 Lakhs
Lowest Placement Package Offered	INR 1.44 Lakhs
Average Package For Eligible Students	INR 1.52 Lakhs

Total Eligible Students in the year 2022-23

Name of Department	Diploma
Mechanical Engineering	40
Chemical Engineering	41

Names of scholars/students who won Convocation/Institute Day prizes

S. No.	Name of Student	Roll No.	Name of Prize	Prize awarded by
1	BIPLOB NEWAR	DCHE-19-04	Institute Gold Medal	Chief Guest, Shri Rameswar Teli (Hon'ble MOPNG)
2	BIPLOB NEWAR	DCHE-19-04	President Gold Medal	President, RGIPT
3	MAYUR PANKHI GOGOI	DPIE-19-21	Institute Gold Medal	Chief Guest, Shri Rameswar Teli (Hon'ble MOPNG)
4	ANUJ KUMAR SHAH	DPIE-19-06	Directors Gold Medal	Director, RGIPT
5	SUDIPTA SAIKIA	DPE-19-26	Institute Gold Medal	Chief Guest, Shri Rameswar Teli (Hon'ble MOPNG)

Petroleum Engineering	41
Electronics and Instrumentation Engineering	17
Fire and Safety Engineering	24
TOTAL	163

Total No. of Students Placed in the year 2022-23

Name of Department	Diploma
Mechanical Engineering	39
Chemical Engineering	25
Petroleum Engineering	29
Electronics and Instrumentation Engineering	9
Fire and Safety Engineering	26
TOTAL	128

Infrastructure

S. No.	Particulars	Number
1	No. of Classrooms	4 Nos
2	No. of Lecture Halls	4 No.
3	No. of Laboratory & Workshop	7 Nos
4	No. of Computers available for students in the Department/Centre	34 Nos

Students on Roll

S. No.	Programme	I Year	II Year	III Year
1.	Diploma in Petroleum Engineering	30	36	46
2.	Diploma in Chemical Engineering	25	31	47
3.	Diploma in Mechanical Engineering	31	37	42
4.	Diploma in Electronics & Instrumentation Engineering	14	17	23
5.	Diploma in Fire & Safety Engineering	17	18	24

Faculty & their Activity

Faculty and their areas of specialization

S. No.	Name, Qualifications, Employee No.	Date of award of PhD Degree	Major Areas of Specialization (Max. 3 Areas)
ASSISTANT PROFESSORS			
1	MR. CHINMOY JIT SARMA, M.Tech, (0174)	--	1. Petroleum Exploration & Production 2. Alternate Fuels
2	MRS. SUKANYA HAZARIKA, M.Tech, (176)	--	Process Control
3	DR. RUPJIT SAIKIA, Ph.D, (0173)	01.01.2021	1. Fuzzy Set Theory 2. Uncertainty Modelling 3. Hesitant Fuzzy Set Theory
4	DR. BHASKAR JYOTI MEDHI, Ph.D, (0197)	12.06.2019	1. Experimental and Computational Fluid Dynamics 2. Microfluidics 3. Complex Fluids
5	MR. SEKHAR GOGOI, M.Tech, (0194)	--	1. Production 2. Drilling 3. Enhanced Oil Recovery
6	MISS. ANANYA BORAH, M.Tech, (0216)	--	1. Behavior based safety, 2. Bioremediation
7	DR. SRAWANTI MEDHI, Ph.D, (0217)	05.09.2020	1. Drilling Fluids 2. Nanotechnology, CFD 3. Rheology of Complex Fluids
8	DR. SABYASACHI PRAMANIK, Ph.D, (0218)	26.11.2018	1. Nanoscience 2. Sensing Applications 3. Energy Applications
9	DR. NIMISHA RAGHUVANSHI, Ph.D, (0219)	26.05.2017	1. Twisted Bilayer Graphene 2. Topological systems & the associated surface states 3. Magnetism in iron based superconductors
10	DR. SATISH KUMAR TIWARI, Ph.D, (0220)	03.11.2017	1. Mathematical Ecology 2. Differential Equations 3. Nonlinear Dynamics
11	DR. ARUN KUMAR Ph.D, (0221)	22.10.2020	1. Nanomaterial 2. Environmental Remediation 3. Electro-chemical Sensing
12	MR. SATYAJIT CHOWDHURY, M.Tech, (0223)	--	1. Enhanced Oil Recovery, 2. Rheology, 3. CFD, Nanomaterial,
13	DR. ANIL KUMAR VARMA, Ph.D, (0222)	07.10.2018	1. Biofuels 2. Wastewater Treatment 3. Separation Process
14	DR. SOUVIK DE, Ph.D, (0225)	18.11.2011	1. Physical Chemistry
15	DR. ABHIMANYU KAR, Ph.D, (0227)	05.03.2018	Thermal Science and Engineering
16	DR. SHIKHA DWIVEDI, Ph.D, (0228)	10.02.2017	1. Complex Systems 2. Computational Soft Matter Physics 3. Statistical Mechanics
17	DR. SANAT KUMAR SINGHA, Ph.D, (0229)	06.05.2019	1. Phase Transition, 2. Molecular Simulation, 3. Surface Icing
18	DR. CHINMAYEE HAZARIKA, Ph.D, (0236)	27.12.2018	1. Bio Electronic Devices 2. MEMS 3. Sensors 4. Lithium Ion Battery

Annual Report 2022-2023

S. No.	Name, Qualifications, Employee No.	Date of award of PhD Degree	Major Areas of Specialization (Max. 3 Areas)
19	DR. M. CHAKKARAPANI, Ph.D, (0235)	29.12.2017	1.Control Systems 2.Power Electronics 3.Renewable Energy Systems
20	DR. NILAMBAR BARIHA, Ph.D, (0239)	11.05.2017	1.Industrial Safety & Hazard Management 2.Fire Science 3.Modeling of Process Safety 4.Design of Safety System 5.Reliability Engineering
21	DR. NAVEEN MANI TRIPATHI, Ph.D, (0247)	28.03.2019	1.Fluid Particle Multiphase Flow 2.Pipe Line Design 3.Thermofluid 4.Powder Flow Characterization(Additive Manufacturing+Chemical,Food, Pharma)
22	DR. SANTOSH KUMAR VERMA, Ph.D, (0256)	01.08.2018	1.Model Order Reduction 2.Fractional Order Controller 3.Evolutionary Design Optimization
23	DR. KARTHIK BABU NB, Ph.D, (0257)	12.01.2020	1.3D Printing 2.Biocomposites 3.Polymer Composites

Technical and Non-Teaching Staff

Sl. No.	Name, Qualifications	Designation, Employee No.	Date of Appointment in the department
1	MS. PARISHMITA SHARMA BARUAH, M Sc	ASSISTANT GRADE-I (279)	20.01.2022
2	DR. TAPAN JYOTI GOGOI, P.hd	TECHNICIAN GRADE-I (276)	18.01.2022
3	MR. SUMEER KUMAR SAIKIA, M Sc	TECHNICIAN GRADE-I (277)	20.01.2022
4	DR. SURAMONI BORTHAKUR, P.hd	TECHNICAL SUPERINTENDENT (281)	07.02.2022
5	MR. SAUGATO DEY, M. Tech	TECHNICAL SUPERINTENDENT (282)	08.02.2022
6	MR. AGHNA TIYAS MANDAL, M. Tech	TECHNICAL SUPERINTENDENT (283)	16.02.2022
7	DR. SOURAV JYOTI BHARALI, P.hd	TECHNICAL SUPERINTENDENT (284)	28.02.2022
8	MR. PRADUMNYA PHUKAN, M Sc	SUPERINTENDENT (285)	01.03.2022
9	MR. PULAKESH KUMAR, MBA	ASSISTANT GRADE-I (286)	07.03.2022
10	MR. KAUSHIK DAS, M. Tech	ASSISTANT GRADE-I (287)	24.03.2022

International and Alumni Relations (2021-22)

Introduction

The alumni association of Assam Energy Institute (AEI) serves as a platform to connect the alumni of AEI with each other as well as with the current scholars for evolving a comprehensive and dynamic community of AEI, under the umbrella of RGIPT. The coalescence of alumni and the Institute together will turn out to be an insightful and vivacious asset of RGIPT fraternity.

Vision

To serve as the podium for binding alumni as an imperative confederate of the future accomplishments of the Institute by enticing them in distinct socioeconomic exercises.

Mission

- Creating a dynamic network for unifying alumni with the Institute for exchanging their academic as well as corporate experiences and strengthening the relationship between alumni and the Institute.
- Conduction of various alumni-student activities to boost the confidence and competence of students and also to motivate them for entrepreneurial mindset.
- To perceive the diverse commitments and concerns of the members of alumni community for making them an integral part of the Institute's extended family.

Other Activities: Database has been created for the recent pass out batches (2017-2020 & 2018-2021)

Computer & Information Service Data

Network Connectivity and Internet

CISC provides day to day services and support, required to maintain smooth running of network connectivity within the entire academic, administrative building and classrooms via LAN setup. Internet access is provided by 4 nos. of dedicated fibre optic broadband connection obtained from BSNL, Sivasagar unit. Also we have WiFi facility distributed throughout our building premises via routers installed at different locations.

Institute Mail Server (Google Apps)

For mail facility of the staffs and students of the Institute, we are using cloud base Education google app mail server, directly secured from RGIPT, Jais.

Classroom A/V System

We have four nos. of classrooms equipped with A/V system that includes digital boards and podiums suitable for conducting classes through digital medium.

Computer Lab

Another important aspect of CISC is to look over the computer lab that consists of 33 nos. of total desktop computers for use by students and staff. The use of the computers are recorded in log books along with relevant data. The computers are all Acer Veriton Model procured via RGIPT Jais.

Software Services

AEI have borrowed AutoCAD license from RGIPT Jais to conduct classes for the students. Currently, we are using 27 computers installed with the license permission obtained from RGIPT Jais.

Library

Year of Establishment: 2018

Introduction

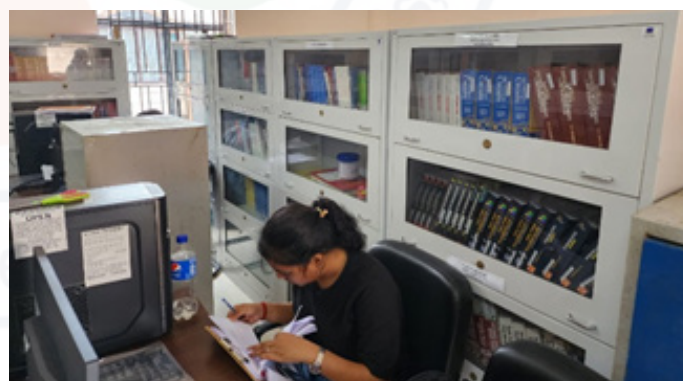
Assam Energy Institute facilitates its members with a primitive library that caters the requirements of the AEI fraternity which includes students, faculties and staff. AEI library has an ample amount of books pertaining to various engineering branches (Chemical, Petroleum, Mechanical and Fire & Safety Engineering), basic science subjects (Physics, Chemistry, Mathematics and Computer Science) as well as English and Humanities. Further, we are in the process of adding many more to its currently existing count along with new additions in the field of Electronics & Instrumentation Engineering. In addition to the currently available technical volume lot, the library aims to add additional technical resources such as scientific journals, magazines, newspapers, software, fiction and non-fiction novels from different genres to meet the demand of the AEI fraternity.

Library Hours: 9 AM – 6 PM (Monday-Friday)

Database: 1120

Initiative for Digital Library: Started the process of digitization of the existing library at AEI Sivasagar.

Other Information/Activities: We have completed the first phase of procurement of library books and purchased 561 books. Also, we have a given requisition for the second phase of procurement of library books.



Activities By SW&GC

Photography session for outgoing batch on 26th April, 2022

SW&GC in association with the Photography Club of AEI organised photography session for outgoing batch. The session aimed to capture the essence

of their academic journey and provide them with cherished memories to carry forward into their future endeavours. The outgoing batch exhibited tremendous enthusiasm and excitement for the group photography. The digital photographs were published in the institute e-magazine. Photographs were also uploaded on social media handles of the institute to boost the visibility of the institute.



CGrow Green AEIS on 27th April 2022

On April 27th, 2022, a notable initiative known as “Grow Green AEIS” was executed, involving a plantation session held within the premises of the institute. The event aimed to promote environmental awareness, sustainability, and community engagement through the act of planting trees. The “Grow Green AEIS” plantation session was organized in collaboration with the passing out students (batch of 2019-2022). The event began at 03:00 PM with an introductory session, during which the importance of tree planting and its impact on the environment were

highlighted. Approximately, 200 students, 30 faculty members and staffs were participated in planting more 70 plants. Participants were divided into small groups and provided with tools, saplings, and necessary instructions for proper planting. The plantation session was just the beginning of a larger endeavour. The junior students (batch 2021-2024) pledged to oversee the long-term care and maintenance of the newly planted trees and plants, ensuring their healthy growth as a part of their Community Internship course. This collective effort demonstrated the institute’s commitment to creating a greener and more sustainable environment.



Adieu 2022, farewell to batch 2019-2022 (28th April, 2022)

On the 28th of April, 2022, a heartfelt and nostalgic event titled “Adieu 2022” was organized to bid farewell to the graduating batch of 2019-2022. The event aimed to commemorate the achievements, memories, and lasting bonds that the departing students had formed during their time at the institution. “Adieu 2022” was a collaborative effort by the SW&GC, faculty members, and the graduating batch. The event began with an opening address by the Asst. Dean Student Affairs who highlighted the achievements of the outgoing

batch and emphasized the importance of cherishing the bonds formed during their time at the institution. It was followed by an address by In-Charge of the institute who shared messages of encouragement and wisdom, imparting life lessons and advice as the students embarked on the next phase of their journey. The event featured a variety of cultural performances, including music and dance, which showcased the diverse talents of the outgoing batch and added an element of entertainment to the evening. As a symbol of remembrance, each graduating student was presented with a group photograph of the batch.



Prabhat Pheri on 12th August 2022

As a celebration of “Azadi Ka Amrit Mahotsav”, Prabhat Pheri with “Tiranga” was organised on 12th August 2022. It was in line with the “Har Ghar Tiranga” campaign of the government. Faculty members, staffs and students actively participated in the program. The event aimed to instill a sense of patriotism, unity, and pride among participants as they marched in solidarity, proudly carrying the tricolor flag. The pheri started at 6:30 am from GH-1 (Taxi Ali) to DC office which covers key areas of the city. As the Prabhat pheri progressed, participants chanted patriotic slogans and sang national songs, creating an atmosphere filled with energy and devotion. The enthusiastic participation and synchronized chants resonated with the spirit of national pride. The “Prabhat Pheri”, successfully celebrated the national flag as a symbol of unity, diversity, and patriotism.



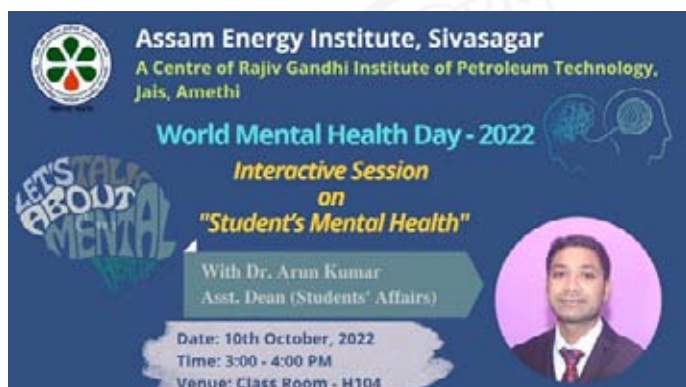
Constitution of “GyanArpan” group, AEI Sivasagar (7th August, 2022)

A self-help group was constituted for educating and promoting local unprivileged kids in Sivasagar. It had started with six volunteers on 7th August under the guidance of Dr. Arun Kumar, Chairman, SW&GC. At the start, the volunteers self-financed food, copy and pen/pencil for street kids for the first three weeks. Later, a group is constituted to dedicatedly work on the plan to help kids nearby the Institute. Currently more than 30 volunteers are working on weekend to collect kids at two centres. One near Sivadol and the second near the village of the Institute. “GyanArpan” group is aiming to upgrade the life of underprivileged kids in the vicinity of our institute by education them. The poor kids like rag pickers and beggars do not have proper food to eat, cloth or even slippers to wear. The initiative was supported and appreciated by all the community members. Financial contribution was made by all (Faculties, Students, and staffs) to continue this noble cause of educating the poor.



Interaction session on “Students mental health” with first year students 10th October 2022

AEI, Sivasagar observed “World Mental Health Day-2022” on 10th October 2022. On this occasion an interaction session of students with Asst. Dean (Students’ Affairs) was organised to raise awareness of mental health issues among students and to mobilize efforts in support of their mental health. It is organised to acknowledge that mental health is important. It is emphasized that we need to discuss mental health and remove the stigma about it. The session was well participated.



Cloth donation drive on the occasion of Diwali on 23rd October 2022

A cloth donation drive for the underprivileged children was organized on the occasion of Diwali (23rd October, 2022) with the help of GyanArpan Volunteers under the guidance of student welfare and grievance cell.



Interaction with school kids on 30th October 2022

On October 30th, 2022, a heartwarming and enriching interaction took place between Gyanarpan volunteers and school children. The event aimed to foster learning, mentorship, and mutual understanding while providing a platform for volunteers to share their knowledge and experiences with the younger generation. The interaction was organized by GyanArpan group, a community-based initiative focused on education and skill development. The event took place in the campus and brought together volunteers and school children from nearby primary school. Gyanarpan volunteers aimed to share their expertise and experiences with the school children, inspiring them to explore different science and engineering fields, and broaden their horizons. The event provided an opportunity for meaningful mentorship, where volunteers could offer guidance, advice, and encouragement to the young minds. was a heartening and impactful event that promoted learning, mentorship, and community building.



Interaction with Teachers and Parents at Palashani Lower Primary School on 05th November 2022

Under Gyan Arpan, a social initiative of the Student Welfare Cell of AEI. Faculty members interacted with teachers and parents at Palashani Lower Primary School (a nearby school of AEI). We shared insights into their respective careers, discussing the challenges,

rewards, and opportunities in the fields of science and technology. The participants looked enthusiastic about the AEI campus and its facilities. The interaction strengthened the sense of community and highlighted the importance of giving back and nurturing the next generation.



Saraswati Puja on 26th January, 2023

Saraswati Puja on 26th January, 2023.



Sports week during 28-30th January, 2023

From January 28th to 30th, 2023, an exhilarating and vibrant Sports Week was organized, bringing together students, athletes, and sports enthusiasts to celebrate physical activity, teamwork, and healthy competition. The event aimed to promote fitness, camaraderie, and sportsmanship among participants. The Sports Week featured a diverse range of athletic activities that catered to various indoor and outdoor games. Students from various departments enthusiastically participated in the Sports Week, creating a lively and energetic atmosphere. The event facilitated interactions among students from different backgrounds, promoting a sense of unity and camaraderie. The sports activities emphasized the values of healthy competition, teamwork, and perseverance. Participants displayed exceptional sportsmanship, encouraging, and supporting each other throughout the various events. Winners and outstanding performers were awarded medals and trophies as a token of recognition for their achievements.



Iwc Data

Construction of Store Room

To provide an secured area for storage of all kinds of materials, a 3 nos. storeroom building of plinth area 90sqm. has been constructed in the Central Workshop block. The whole block is well connected by paver block & cement concrete roads/ pathways.



Construction of 2nos. Boys Hostel

To facilitate the accommodation of students, 2 nos 160 capacity boys' hostels are being constructed. With total capacity of 320 students distributed in G+ 3 structures, the structure has been completed till G+2 storey and preparation of slab above was under progress as on 31/03/2023. Internal finishing works is under progress in G+2 storey area.



Construction of Academic Building

The institute is in process to develop the proper infrastructure for each of its domains, which will help the institute to conduct its undergraduate classes and laboratories in a much efficient way. The building will also have rooms for faculty offices, library, conference room, computer lab etc. Also, the construction is being planned out keeping provisions for common research facilities.



Construction of Boundary Wall

As per the security requirements of the AEI campus, Construction of boundary wall with gates have been started in the whole 100 acres campus. An additional intermittent wall of precast concrete blocks is constructed within the 35 acres campus. Construction of wall in the 65 acres of ungraded land is 95% completed.

Construction of 1 no. Girls Hostel

To accommodate the girls enrolled in under graduate courses, G+3 storey building is being constructed. After the completion of the building, it will contain 48 numbers double occupancy rooms. As on 31st March, 2023 work has been completed till G+2 structure.



Construction of Dining Hall

To establish a common mess facility for all hostels, A G+1 dining hall building is being constructed in the AEI campus. After completion, the building will have a capacity of 400+ students at a time. As on 31/03/2023, construction has been completed till plinth level.

Construction of Additional Girls & Boys hostels

To cater the demand of hostel requirements, additional 1 no. boy's hostel and 1 no. girls hostel is being constructed. The G+4 Boys hostel will have a capacity of 192 students with common area for indoor games and other recreational activities. At on date piling work of the building is under progress.

Similarly, the girl's hostel will be a 100 bedded G+4 structure with common area for indoor games and other activities. The piling work and PCC of the sub-structure is completed and reinforcement work for raft is under way.

Construction of internal roads:

In accordance with establishment of the campus, construction of internal roads for movement within the campus is of utmost necessity. Therefore construction of an internal motorable road of GSB layer has been initiated to provide access and inter-connectivity between the buildings.

Construction of Gate Complex:

With the establishment of AEI campus, construction of 3 nos. entry/exit gates of height 8.27m each has

been started at location as marked in the campus plan. The 3 nos. gate complex will be provided with centric post at each gate and waiting room in the main gate complex. At present construction of culvert work for the gates is completed.

Construction of Water Supply Scheme:

To fulfill the water supply demand of upcoming 5 nos. hostels, faculty housing and new academic building, establishment of a fully functional water supply system has been started. The project includes an underground sump of capacity 2.5 lakh liters, pump, iron filtration plant and chemical room.

Construction of Faculty Housing

To provide residential accommodation for the faculties of the institute, a G+6 storey faculty housing project has been started. After completion of the building it will accommodate 36 nos. 3BHK apartments in a two tower structure along with ground floor parking for 36 nos. vehicles.

The tender for said work has been awarded by CPWD in March'23.

Faculty members' participation with other universities under MoUs

Dr. Sabyasachi Pramanik- IIT Guwahati, Ref No.- MoU/IITG/RGIPT/250 ; Dated- 30/10/2019

Publications in peer reviewed journal papers

Dr. Anil Kumar Varma

- Sharan, S., Khare, P., Dhariya, S., Kunwar, A., Yadav, S., Patel, R.K., Gole, V.L., Yadav, V.K., Varma, A.K. and Mondal, P., 2023. Treatment of Lignin Enriched Paper Industry Wastewater by Electrocoagulation: Modelling Approach and Economic Evaluation. Chemical Engineering Research and Design. (SCI, IF- 4.119)
- O.P Bamboriya, A.K Varma, R Shankar, V. Aniya, P. Mondal, L.S Thakur, "Thermal analysis and determination of kinetics and thermodynamics for pyrolysis of soybean de-oiled cake using thermogravimetric analysis" Journal of Thermal Analysis and Calorimetry, 2022. (SCI, IF-4.755)
- L. S. Thakur, H. Parmar, A. K. Varma, A. K. Chaurasia, P. Mondal "Removal of manganese from synthetic wastewater by Vetiveria zizanioides" Materials Today: Proceedings, 2022.
- L. S. Thakur, R. Baghel, A. Sharma, S. Sharma, H. Parmar, A. K., Varma, P. Mondal "Simultaneous removal of lead, chromium and cadmium from synthetic water by electrocoagulation: Optimization through response surface methodology" Materials Today: Proceedings, 2022.

Dr. Karthik Babu N.B.

Year: 2023

- TR Vijaybabu et al. "High thermal conductivity polymer composites fabrication through conventional and 3d printing processes: state-of-the-art and future trends" Macromolecular Materials and Engineering (DoI: 10.1002/mame.202300001). IF: 4.402.
- Karthik Babu NB, et al. "A Review of Sustainable Bio-based Insulation Materials for Energy-Efficient Buildings" Macromolecular Materials and Engineering (DoI: 10.1002/mame.2023000086). IF: 4.402.
- V. Alagumalai, NB Karthik Babu, et al. "Wear properties of natural fibre-based composites – A brief review" Polymers for Advanced Technologies. (IF: 3.348).
- Das, Oisik, et al. "Functionalised biochar in biocomposites: The effect of fire retardants, bioplastics and processing methods." Composites Part C: Open Access 11 (2023): 100368. (IF: 4.2)
- Öhrn, Olina, et al. "Surface coated ZnO powder as flame retardant for wood: A short communication." Science of the Total Environment 897 (2023): 165290. (IF: 9.8)

Year: 2022

- Mathan, Karthikeyan, Karthik Babu NB, and Oisik das "A study of the influence of current ramp rate on the performance of polymer electrolyte membrane fuel cell" (Accepted in Scientific reports) – Springer Nature publishers. (Impact Factor: 4.996).
- Vijaybabu, T. R., and Karthik Babu NB. "Significance of porous elliptical cylinder on the MHD natural convection." International Journal of Mechanical Sciences (2022): 107792. (Impact Factor: 6.772).
- NB Karthik Babu, et al. "Self-reinforced polymer composites: An opportunity to recycle plastic wastes and their future trends." Journal of Applied Polymer Science (2022): e53143. (Impact Factor: 3.057).
- Nagaraj, N., Venkataraman, V., NB Karthik Babu, Balasubramaniam, S., Jule, L. T., Ramaswamy, K., & Subramanian, K. (2022). Effect of Green Hybrid Fillers Loading on Mechanical and Thermal Properties of Vinyl Ester Composites. Polymer composites. (Available Online), Impact Factor: 3.531
- J Ronald Aseer, Sankaranarayanan K, Karthik Babu NB, Cellulosic Microfiber extraction from eco-friendly Bahunia Racemosa and its characterization, Journal of Natural Fibers (2022) – 1-13, (Impact Factor: 5.323).
- Shanmugam, V., Mensah, R. A., Karthik Babu, NB., Gawusu, S., Chanda, A., Tu, & Das, O. (2022). A Review of the Synthesis, Properties, and Applications of 2D Materials. Particle & Particle Systems Characterization, 2200031, (Impact Factor: 3.467).
- Oisik das, Karthik Babu NB, et al. "Natural and industrial wastes for sustainable and renewable polymer

composites.” Renewable and Sustainable Energy Reviews 158 (2022): 112054. (Impact Factor: 14.98)

- Mensah, R.A., Shanmugam, V., Narayanan, S., Renner, J.S., Babu, K., Neisiany, R.E., Försth, M., Sas, G. and Das, O., A review of sustainable and environment-friendly flame retardants used in plastics. Polymer Testing, (2022) 107511. (Impact Factor: 4.282).

Satyajit Chowdhury

- Satyajit Chowdhury, Yogendra Kumar, Saket Shrivastava, Shrey K Patel, Jitendra S Sangwai, A Review on the Recent Scientific and Commercial Progress on the Direct Air Capture Technology to Manage Atmospheric CO₂ Concentrations and Future Perspectives”, Energy Fuels 2023, Volume 37, Issue 15, 10733–10757 (IF:5.3, Citation: 1)
- Satyajit Chowdhury, Mayank Rakesh, Srawanti Medhi, Saket Shrivastava, Rajat Dehury, Jitendra S Sangwai, “Three-Phase Fluid Flow Interaction at Pore Scale during Water- and Surfactant-Alternating Gas (WAG/SAG) Injection Using Carbon Dioxide for Geo-Sequestration and Enhanced Oil Recovery” Energy Fuels 2023, 37, 7, 5270–5290 (IF:5.3, Citations: 1)
- Satyajit Chowdhury, Mayank Rakesh, Jitendra S Sangwai, “Investigation of water and polymer flooding for enhanced oil recovery method in differential lobe pore structure” Indian Chemical Engineer 2022, Volume 65 Issue 2 143-154 (IF:1.5 and Citations:1)
- Satyajit Chowdhury, Mayank Rakesh, Srawanti Medhi, Japan Trivedi, Jitendra S Sangwai, “Pore-scale flow simulation of supercritical CO₂ and oil flow for simultaneous CO₂ geo-sequestration and enhanced oil recovery” Environmental Science and Pollution Research 2022, Volume 29 Issue 50 76003-76025 (IF:5.8 and Citations:6)

Dr. Sanat Kumar Singha

- N. Vadakkayil, S.K. Singha, and S.K. Das, Influence of roughening transition on magnetic ordering, Physical Review E, 105 (4), 044142, 2022.

Dr. Srawanti Medhi

- Satyajit Chowdhury, Mayank Rakesh, Srawanti Medhi, Saket Shrivastava, Rajat Dehury, and Jitendra S. Sangwai. “Three-Phase Fluid Flow Interaction at Pore Scale during Water-and Surfactant-Alternating Gas (WAG/SAG) Injection Using Carbon Dioxide for Geo-Sequestration and Enhanced Oil Recovery.” Energy & Fuels 37, no. 7 (2023): 5270-5290. (IF: 5.3, Citations:1)
- Satyajit Chowdhury, Mayank Rakesh, Srawanti Medhi, Japan Trivedi, and Jitendra S. Sangwai. “Pore-scale flow simulation of supercritical CO₂ and oil flow for simultaneous CO₂ geo-sequestration and enhanced oil recovery.” Environmental Science and Pollution Research 29, no. 50 (2022): 76003-76025. (IF: 5.8, Citations: 6)

Dr. Nilambar Bariha

- Bariha, N., Ojha, D.K., Srivastava, V.C., Mishra, I.M. “Fire and risk analysis during loading and unloading operation in liquefied petroleum gas (LPG) bottling plant”, Journal of Loss Prevention in the Process Industries 81 (2023) 104928 (IF: 3.916, Citations:2)

Dr. Satish Kumar Tiwari

- R. Singh, S. K. Tiwari, A. Ojha, N. K. Thakur, Dynamical study of nutrient-phytoplankton model with toxicity: Effect of diffusion and time delay, Mathematical Methods in the Applied Sciences (2022), 46(1), 490-509.
- S. Kumari, S. K. Tiwari, R. K. Upadhyay, Cross diffusion induced spatiotemporal pattern in diffusive nutrient-plankton model with nutrient recycling, Mathematics and computers in Simulation (2022), 202, 246-272.

Dr. Shikha Dwivedi

- S. Kumari, Shikha Dwivedi and R. Podgornik, “On the nature of screening in Voorn-Overbeek type theories”, Journal of Chemical Physics, Vol. 156, 244901 (2022)

Dr. Sabyasachi Pramanik

- Mihir Manna, Sabyasachi Pramanik*, Satyapriya Bhandari. 2022. Surface Modification of Dual Emitting Quantum Dot Complex by Ionic Liquid for Bright and Stable White-Light Emission. ACS Applied Nano Materials. 5,8, 11906–11911. (* as corresponding author) Impact factor – 5.9

Books, monographs, lab or design manuals

Dr. Nilambar Bariha (Authored)

- Dhurandhar, R., Parmar, P., Thakur, C., Das, B., Bariha, N. Generation of bio-energy from industrial waste materials 1 (2023) 289-309

Dr. Anil Kumar Varma

- Malviya, P., Varma, A.K., Chaurasia, A.K., Parmar, H., Thakur, L.S., Kumbhkar, P. and Shah, P., 2023. Heavy Metals Contaminants Threat to Environment: It's Possible Treatment. In Transportation Energy and Dynamics (pp. 323-341). Singapore: Springer Nature Singapore. (Book Chapter)
- O.P Bamboriya, A. K Varma, J.S Yadav, L.S Thakur, “Physicochemical and Pyrolysis Kinetic Aspects of Biomass Feedstocks: An Overview” International Conference on Chemical, Bio and Environmental Engineering in Springer, 181-198, 2022. (Book Chapter)

Dr. Naveen Mani Tripathi

- A.S. Bhadouria, A. Kumar, D. Raj, A. Verma, S. Singh, P. Tripathi, Y. Kumar, A.S.K. Sinha, N. M. Tripathi*, A.M. Yeneneh, D. Dwivedi* (Jun-2022): Corrosion mitigation in Oil reservoirs during CO₂ injection

using nanomaterials. Book: Nanotechnology for CO₂ Utilization in Oilfield Applications, Elsevier, 127-146, [ISBN: 978-0-323-90540-4]

Satyajit Chowdhury

- Satyajit Chowdhury, Mayank Rakesh, Jitendra S Sangwai Developments in Petroleum Science, Elsevier Volume 78 Pages 111-134

Continuing Education/QIP Short Term Lectures/ Special Lectures

Dr. Nilambar Bariha

- Recent Advances in Electric Vehicle and Renewable Energy Integration: Challenges, Solutions and Opportunities RGIPT, Jais Rajiv Gandhi Institute of Petroleum Technology, Jais, Uttar Pradesh 23rd-27th January, 2023
- Process Modelling, Simulation, Control and Optimization (PMSO-2023)-Online mode. NIT Jalandhar NIT Jalandhar, 23rd -27th March, 23

Ananya Borah

- Pursuing PhD at DUIET, Dibrugarh University, Feb 2023

Dr. Sanat Kumar Singha

- Silver and Elite FDP certificate for securing 76% marks in the 12-week NPTEL course “Advanced Thermodynamics and Molecular Simulations” by IIT Roorkee (Jan-Apr 2023)
- Elite FDP certificate for securing 67% marks in the 12-week NPTEL course “Introduction to Machine Learning” by IIT Madras (Jan-Apr 2023)

Dr. Naveen Mani Tripathi

- Effective Resume Writing (Academics4Nation Science Internship Program 2.0) JAN-2023
- National Education Policy 2020 (Major Transformational Reforms in Education Sector) (NIET, Uttar Pradesh, Sponsored by ATAL Faculty Development Programme) DEC-2022
- Stress Management (NIET, Uttar Pradesh, Sponsored by ATAL Faculty Development Programme) DEC-2022

Sekhar Gogoi

- Attended Short Term Courses:
- Attended ATAL FDP on ML and AI Applications in the flow of hydrocarbons in underground reservoirs (Online). Organised by AICTE ATAL Academy and Department of Petroleum Technology, Dibrugarh University from Dec 5-10 and 12-16, 2022

Dr. Chinmayee Hazarika

- Keynote speaker-Topic “Digital technologies for older persons and healthy ageing” Jointly Organized by The

Institution of Engineers (India), Mizoram State Centre in collaboration with National Institute of Technology Mizoram, date- 10/06/2022

Dr. Shikha Dwivedi

- Short term course on “Fundamentals of Macroscopic and Microscopic Thermodynamics”, conducted by University of Colorado in June 2022 via online platform of Coursera

Dr. Rupjit Saikia

- Recent Advances in Electric Vehicle and Renewable Energy Integration: Challenges, Solutions and Opportunities at Energy Institute, Bengaluru and Assam Energy Institute, Sivasagar from 23/01/23 to 27/01/23

Conference research papers (presented)

Dr. Anil Kumar Varma

- Anil Kumar Varma, Arun Kumar, Ravi Shankar “Utilization potential of pine needles as a source of bioenergy” ‘Frontiers in Energy, Environment and Material Sciences for Sustainable Development (FEEMSSD - 2023) jointly organized by Madan Mohan Malaviya University of Technology, Gorakhpur Uttar Pradesh-273010, India, Indian Desalination Association (InDA) and KIPM-College of Engineering & Technology GIDA, Gorakhpur, Uttar Pradesh-273209, India during 16-17 March. (online mode)
- A. Kumar, A. K. Varma, Green synthesis of electrode for electro-oxidative remediation of emerging pollutant in wastewater, National Conference on Science for Society, Environment and Sustainability (SSES-2022), November 24-26, 2022, CSIR-NEIST, Jorhat, India.

Dr. Arun Kumar

- Arun Kumar, Anil Kumar Varma, Green synthesis of electrode for electro-oxidative remediation of emerging pollutant in wastewater, National Conference on Science for Society, Environment and Sustainability (SSES-2022), November 24-26, 2022, CSIR-NEIST, Jorhat, India.
- Anil Kumar Varma, Arun Kumar, Ravi Shankar, Utilization potential of pine needles as a source of bioenergy, ‘Frontiers in Energy, Environment and Material Sciences for Sustainable Development (FEEMSSD - 2023), 16-17 March, 2023, Madan Mohan Malaviya University of Technology, Gorakhpur Uttar Pradesh-273010, India, Indian Desalination Association (InDA) and KIPM-College of Engineering & Technology GIDA, Gorakhpur, Uttar Pradesh-273209, India during. (online mode).

Dr. Satish Kumar Tiwari

- Presented a paper entitled “Food Chain Dynamics of Aquatic Plankton System: A Mathematical Model” in 2nd National Conference on Computational and

Characterization Techniques in Engineering & Sciences (CCTES-23) organized by Rajkiya Engineering College, Ambedkar Nagar Uttar Pradesh, India, during February 27-28, 2023

Dr. Chinmayee Hazarika

- P. Barman, S. Bordoloi and C. Hazarika, “On-board Health Prognosis of Lithium-Ion Battery Based on the Estimation of Internal Resistance Under Resistive and Inductive Loading Conditions,” 2022 Second International Conference on Advances in Electrical, Computing, Communication and Sustainable Technologies (ICAECT), Bhilai, India, 2022, pp. 1-5, doi: 10.1109/ICAECT54875.2022.9807976.

Dr. Shikha Dwivedi

- Paper presentation on the topic “Generalisation of Screening Length in the Voorn Overbeek Theory for the Asymmetric Polyelectrolyte Systems”, in the “International Conference on Soft Materials (ICSM 2022)” which was held by SMRS and MNIT Jaipur, Rajasthan, India, during December 11-16, 2022.

Dr. Sabyasachi Pramanik

- Delivered a lecture entitled as “Surface Complexed Quantum Dots for White Light Emission and Sensing Applications” in Science for Society Environment and Sustainability” (SSES-2022), organized by CSIR-North East Institute of Science and Technology (NEIST), Jorhat, Assam, 24-26 Dec 2022

Dr. Rupjit Saikia

- International Conference on Optimization, Learning, and Analytics in Business, Department of Mathematics, Heritage Institute of Technology, Kolkata from 15/12/22 to 17/12/22
- National Conference on Advances in Mathematical Sciences, Department of Mathematics, Gauhati University from 22/12/22 & 23/12/22
- International Conference on “Mathematical Sciences and Applications” (ICMSA 2023), Department of Mathematics, Dr. Bhimrao Ambedkar University, Agra from 24/03/23 to 26/03/23

Workshop attended/conducted

Dr. Anil Kumar Varma

- One Week Short Term Course on “Process Modeling, Simulation, Control and Optimization (PMSCO-2023) March 23-27, 2023 (Online Mode) Jointly Organized by Department of Instrumentation and Control Engineering, Department of Chemical Engineering, and Department of Electrical Engineering, Dr. B.R. Ambedkar National Institute of Technology Jalandhar, Punjab

Dr. Naveen Mani Tripathi

- A 5 days workshop on “Recent Advances in Electric Vehicle and Renewable Energy Integration” (Sponsored by: Science and Engineering Research Board (SERB), Government of India) JAN-2023

Ananya Borah

- Technologies for Industrial Safety & Disaster Risk Management (20/12/2022-22/12/22)

Sekhar Gogoi

- Attended webinar on Good Practices in Well Control Intervention via Relief Well Subsurface Interception (Online). Sponsored by Federation of Indian Petroleum Industry (FIPI) Dibrugarh University Student Chapter on Aug 13, 2022
- Attended Symposium on Energy Transition – Concepts, Opportunities & Challenges and Workshop on Applied Statistical Modelling and Data Analytics for Petroleum Engineering and Related Application at IIT Guwahati. Sponsored by Chemical Engineering, Indian Institute of Technology Guwahati (IITG) and Society of Petroleum Engineers IIT Guwahati Student Chapter from Nov 21-24, 2022

Dr. Satish Kumar Tiwari

- “Workshop on Nonlinear Phenomena in Mathematical Biology (WoNPMB-2022)” organized by ABV- Indian Institute of Information Technology and Management, Gwalior during December 19-23, 2022.
- Attended online Lecture Series on “Nonlinear Dynamics and Applications” organized by Indian Institute of Technology, Indore, during February 13-16, 2023.

Dr. Chinmayee Hazarika

- One week workshop attended, Topic “IPR Management” organized by NIT Mizoram date- 27th June to 1st July 2022.

Dr. Shikha Dwivedi

- Online Faculty Development Programme attended on “Recent Advances in Electric Vehicle and Renewable Energy Integration: Challenges, Solutions and Opportunities” which was organized by Rajiv Gandhi Institute of Petroleum Technology, Jais, Uttar Pradesh, India during January 23-27, 2023.

Dr. Rupjit Saikia

- International Workshop on Mathematical Computations using Software, Department of Mathematics, Akal University, Punjab from 26/04/23 to 28/04/23

Chapter 20

Energy Institute, Bengaluru

Year of Establishment: 2018

Head: Dr. Arjun Deo (w.e.f. 30th September 2020)

Introduction

Ministry of Petroleum and Natural Gas (MoPNG), Government of India has made an initiative to spread technological based advancements through Rajiv Gandhi Institute of Petroleum Technology (RGPT) approved by the act of parliament (RGPT Act 2007). Under this privileged guidance and association, Energy Institute, Bengaluru (EIB), Centre of Rajiv Gandhi Institute of Petroleum Technology is operating since 2018 in transit campus in Bengaluru. For establishing the Institute, a widespread land of 150 acres has been allotted to RGPT by Government of Karnataka in Kambalipura, Hosakote Taluk in Bengaluru.

EIB is envisioned to be a distinguished research institute offering realistic cutting-edge academic programmes and research in the domain of energy. It strives to ignite young minds inculcating the required technical expertise. EIB intends to drive societal growth through research and development activities, energy innovation and entrepreneurship. The Institute aims in conducting leading-edge industrial, technological, and fundamental research in the field of energy; Offer quality education to students; offer short-term training course to Industrial professionals in the field of energy. The Institute is also aiming to create an Energy Experience Centre, Incubation Cell /E-Cell, Office of licensing and commercialization to facilitate immersive experience of energy technologies.

Major areas of Research

Inline with the major thrust areas of the centre, several research works are undertaken which can be grouped as below:

- Solar Photovoltaic
 - Solar Cell Modelling and Fabrication
 - Solar PV Grid Integration and optimisation
 - Smart Grid / Micro-grid
- Solar Thermal
 - Revamped design of non-concentrating collectors
 - Concentrating Solar Plants
 - Solar water heating and dryer

- E-Mobility
 - Electric and Hybrid Power train design modelling and optimisation
 - Range Extension of hybrid vehicles
 - Battery Management system with revamped thermal design
- Digitalisation in Energy Sector
 - Machine learning
 - Deep learning
 - Computational Intelligence
 - Artificial Intelligence
 - IoT / IIoT/ Digital twin

Infrastructure

S. No.	Particulars	Number
1	No. of Classrooms	03
2	No. of Lecture Halls	01
3	No. of Laboratory	03
4	No. of Computers available for students in the Department/Centre	38

Academic Programmes offered

New Programme Introduced

S. No.	Programme	Programme name	Intake	Course credit
1	M. Tech	Data Science	15	226
2	M. Tech	Artificial Intelligence	15	226

Students on Roll

S. No.	Programme	I Year	II Year	III Year	IV Year
1	M. Tech	9	7	NIL	NIL
2	Ph. D (Under Institute Fellowship)	NIL	1	3	3

Annual Report 2022–2023

Names of students/scholars who attended conferences/workshops/seminars and symposia abroad or in India

S. No.	Name of Student	Roll No.	Conference/Seminar/Symposia/ Workshop	Date & Venue	Financial Assistance From
1	Kalidas P	21EB1RE15	World Energy Storage Congress 2022	December 18th 2022, Turkey (online mode)	RGIPT
2	Alok Kumar Chaudhary	21EB1EV02	G20 Y20 consultation meeting at KIIT University, Bhubaneswar	14-15 April 2023 KIIT University, Bhubaneswar	Self
3	Alok Kumar Chaudhary	21EB1EV02	International Conference on Digitalization in Energy Sector by EIB	5-6 December 2022, Jayanagar Bengaluru	RGIPT
4	Pratyush Anand	21EB1RE13	1st World Energy Storage Conference	December 18th 2022, Turkey (online mode)	RGIPT
5	Debmalya Sadhu	21EB1RE02	2nd International Conference on Recent and Advanced Composite Materials	22-24 February 2023, SRMSIT	Self
6	Debmalya Sadhu	21EB1RE02	National Conference on Perovskite Society of India Meet 2023	01-03 March 2023, IIT Roorkee	Self
5	Devansh Dattatreya	21EB1EE03	National Conference on Perovskite Society of India Meet 2023	01-03 March 2023, IIT Roorkee	Self
6	KM. Madhu Paswan	21EB1EE06	National Conference on Perovskite Society of India Meet 2023	01-03 March 2023, IIT Roorkee	Self
7	Mohit Dilip Borse	21EB1EE10	International Conference on Functional material for advance technology	2-4 January 2023, Central University of Kerala	RGIPT
8	Mohit Dilip Borse	21EB1EE10	CSIR Sponsored national conference on challenges and opportunities for green hydrogen in India.	28 - 29 June 2023, Indian Institute of Information Technology, Design and Manufacturing, Kurnool Andhra Pradesh, India	RGIPT
9	Mon Prakash Upadhyay	20EB0008	Second International Conference on Innovations in Clean Energy Technologies (ICET-2023)	8th -10th April 2023 ENERGY CENTRE, MAN-IT	Self
9	Mon Prakash Upadhyay	20EB0008	National Conference on Recent Advancement in Civil, Mechanical and Electrical Engineering (RACMEE 2023)	17-18, April 2023 Lucknow, Uttar Pradesh	Self
9	Akshay Jain	20EB0001	NCCBS-2023(Hybrid Mode)	25-26 March 2023, Veer Surendra Sai University of Technology	Self
10	Anandhi G	20EB0004	International Conference on Advancements and Key Challenges in Green Energy and Computing (AKGEC- 2023)	24-25 February 2023, in Ajay Kumar Garg Engineering College, Ghaziabad UP	Self
11	Almas	20EB0003	5th International Conference on Environment, Resources and Energy Engineering (EREE 2023)	June 15-17, 2023 in Bangkok, Thailand	Self
12	Anitesh Anand	21EB0002	4th International Conference on Communication, Devices and Computing (ICCDC 2023)	March 1-3, 2023 West Bengal, India	RGIPT
13	Alisha Das	20EB0002	4th International Conference on Trends in Material Science and Inventive Materials	24-25 March 2022, JCT College of Engineering & Technology, Coimbatore	RGIPT

Annual Report 2022-2023

Names of students/scholars who got prizes and awards outside the Institute

S. No.	Name of Student	Roll No.	Name of Prize	Date & Venue	Prize awarded by
1	Alok Kumar Chaudary	21EB1EV02	National Youth Award	16/01/2023 Hubli	Ministry of Youth affairs and Sports

Names of scholars/students who won Convocation/Institute Day prizes

S. No.	Name of Student	Roll No.	Name of Prize	Prize awarded by
1	Abhijeeth Rathore	20EB1PS02	First rank in Power and Energy Systems Engineering -Gold Medal	RGIPT during Convoca-tion held on November 2022
2	Suraksha R	20EB1EV02	First rank in Electric Vehicle Technology- Gold Medal	RGIPT during Convoca-tion held on November 2022
3	Bhavsar Het Sandeepbhai	20EB1EE02	First rank in Energy Science and Technol-ogy- Gold Medal	RGIPT during Convoca-tion held on November 2022
4	Anand Venkitaraman	20EB1RE02	First rank in Renew-able Energy -Gold Medal	RGIPT during Convoca-tion held on November 2022

Faculty & their Activity

Faculty and their areas of specialisation

S. No.	Name, Qualifications, Employee No.	Date of award of PhD Degree	Major Areas of Specialization (Max. 3 Areas)
ASSISTANT PROFESSORS			
1	Dr. Arjun Deo, Ph.D	3rd November, 2018	1) Building Integrated Photovoltaic/Thermal Systems 2) Micro-grid/Smart Grid 3) Electric and Hybrid Vehicle
2	Dr. Roopa Manjunatha, Ph.D.	24th June, 2014	1) Instrumentation & Control 2) Wearable Devices 3) Automotive Safety
3	Dr. Hakeem Niyas. U.S, Ph.D.	15th September, 2017	1) Thermal Energy Storage 2) Thermal Management of Batteries and Buildings 3) Solar Thermal
4	Dr. Sivasankari S, Ph.D.	13th July, 2016	1) Solar photovoltaic 2) Smart grid /Micro grid 3) Electric and Hybrid vehicles
5	Dr Debasis De, Ph.D	19th January, 2012	1) Fabrication of solar cells 2) Photo/Electrocatalyst for water electrolysis 3) Energy materials
6	Dr. Bhaskor Jyoti Bora, Ph.D.	22nd June, 2016	1) Biofuels 2) IC Engines 3) Renewable Energy
7	Dr. Chandrakant Ph.D.	26th August 2021	1) Statistical Inference 2) Reliability Analysis 3) Censored lifetime analysis
8	Dr.Bhagirathi Sahu Ph.D.	4th December 2018	Microwave Engineering
DST INSPIRE Faculty			
1	Dr. G R Dillip, Ph. D.	13th September, 2013	1) Condensed Mater Physics 2) Materials Electrochemistry 3) Nanomaterials for Energy Devices

Annual Report 2022-2023

Technical and Non-Teaching Staff

Sl. No.	Name, Qualifications	Designation, Employee No.	Date of Appointment in the department
1	Mahabaleshwar S Shetti	Superintendent-Grade I	01.11.2018
2	Raghu D J	Assistant-Grade I	01.03.2018
3	Bhanushree N	Technician-Grade I	24.09.2018
4	Soumya K.	Secretary to President	01.04.2021
5	Shushilamma	House Keeping Staff	22.09.2021
6	Dayanand Shetty	Office Attendant	01.10.2021

Short-term courses/workshops/seminars/symposia/conferences organised by faculty members

S. No.	Coordinator	Title	Period
1	Dr. Arjun Deo	Training cum FDP on Real-time Simulation and Its applications in E-mobility using Typhoon HIL	September 26 – 30, 2022
2	Dr. Sivasankari Sundaram	SERB sponsored FDP on Recent Advances in Electric Vehicle and Renewable Energy Integration to the grid	January 23-27, 2023
3	Dr. Roopa Manjunatha Organizing Secretary	International Level Conference on Digitalization in Energy Sector (DES 2022)	December 5 -6, 2022

Short-term courses/workshops/seminars/symposia/conferences/training programmes attended by faculty members in academic institutions and public sector undertakings

S. No.	Name of faculty Member	Topic of Lecture	Institution
Seminars/Symposia/Conferences			
1.	Dr. Hakeem Niyas. U.S.	Taking Research to Next Level	26-30 September 2022 Sri Venkateshwara College of Engineering, Bengaluru
2.	Dr. Hakeem Niyas. U.S.	2nd World Energy Storage Conference	18-21 December 2022 Istanbul Medeniyet University, Istanbul, Turkey
3.	Dr. Hakeem Niyas. U.S.	First Industrial Visit under Gyanaanubhav Prawwah Sahayatra (GPS) scheme by Natural Gas Society	24 March 2023 Mahanagar Gas Limited, Mumbai
4.	Dr. Chandrakant	Short-Term Training Program (STTP) on Data Science and Statistical Analysis through R and Python Software	May 10-14, 2023 at SVNIT Surat
5.	Dr. Chandrakant	One Week Workshop on Statistics & Optimization Techniques Using Software Packages	May 22-27 2023 at AMU Aligarh
6.	Dr. Sivasankari Sundaram	FDP on Recent Advances in Electric Vehicle and Renewable Energy Integration to the grid	January 23-27, 2023
7.	Dr. Sivasankari Sundaram	Digitalization in Energy sector 2022	December 5 -6 2022 Bengaluru
8.	Dr. Sivasankari Sundaram	India Energy Week	6-8 February 2023 03 days and Bengaluru
9.	Dr. G.R. Dillip	FDP on Recent Advances in Electric Vehicle and Renewable Energy Integration to the grid	January 23-27, 2023
10.	Dr. Roopa Manjunatha	India Energy Week	6-8 February 2023 03 days, Bengaluru
11.	Dr. Roopa Manjunatha	International Interdisciplinary Humanitarian Conference for Sustainability	Nov 4-5 2022, SVCE, Bengaluru
12.	Dr. Roopa Manjunatha	2nd Annual Workshop on Aircraft Health Management	June 22-23 2023 02 days (Online)
13.	Dr. Roopa Manjunatha	Recent Advances in Electric Vehicle and Renewable Energy Integration: Challenges, Solutions, and Opportunities	January 23-27, 2023 05 days (Online)

Annual Report 2022–2023

Special lectures delivered by faculty members in other Institutions

S. No.	Name of faculty Member	Topic of Lecture	Institution	Date
1	Dr. Hakeem Niyas. U.S.	Thermal Management of Buildings and Processors	SVERI's College of Engineering, Pan-dharpur	16 June 2022
2	Dr. Hakeem Niyas. U.S.	Energy Storage Simula-tion Training	Indian Institute of Technology Jammu, Jammu	27 July 2022
3	Dr. Hakeem Niyas. U.S.	Solar-Thermal Energy Management in Buildings	Indian Institute of Technology Jammu, Jammu	28 July 2022
4	Dr. Hakeem Niyas. U.S.	Thermal Energy Storage Modelling	JAIN (Deemed-to-be University)	07 December 2022
5	Dr. Hakeem Niyas. U.S.	Hands On Session on Hy-drogen Fuel Cell Modelling	G. H. Raisoni College of Engineering and Management	11 April 2023
6	Dr. Hakeem Niyas. U.S.	Fuel Cell Simulation Training	Indian Institute of Technology Jammu, Jammu	24 May 2023
7	Dr.Sivasankari sundaram	Modelling and Simulation of Electric and Hybrid Ve-hicles with hands on train-ing	VIT Chennai	April 8th 2022

Visits abroad by faculty members

S. No.	Name of Faculty Member	Country Visited	Date of Leaving In-dia	Date of Re-turning In-dia	Purpose of Visit	Funding from
1	Dr. Hakeem Niyas. U.S.	Turkey	17/12/2022	23/12/2022	Presented Two Papers in an International Conference	CPDA, RGIPT
2	Dr. Si-vasankari Sundaram	Bangkok, Thailand	14/06/2023	18/06/2023	To present paper at 5th International confer-ence EREE 2023	RGIPT (CPDA)
3	Dr. G.R. Dil-lip	Republic of Korea	11-07-2022	13/08/2022	Visiting Research-er/ Professor	Sponsored by Yeungnam Univerity

Honours and awards

S. No.	Name of Faculty Member	Details of Fellowship
1	Dr. G.R. Dillip	Member of Royal Society of Chemistry (MRSC) - 2023 by the RSC, UK
2	Dr. Sivasankari Sundaram	Best Oral presentation Award at 5th International Con-ference on Energy and Environment, Thailand by University of Wollongong.

Fellowships of academic and professional societies

S. No.	Name of Faculty Member	Details of Fellowship
1	Dr. Bhaskor Jyoti Bora	American Society of Mechanical Engineers
2	Dr. Debasis De	American Chemical Society
3	Dr. Hakeem Niyas. U.S.	International Solar Energy Society
4	Dr. Hakeem Niyas. U.S.	American Society of Mechanical Engineers, Member-ship ID: 101985019
5	Dr. Hakeem Niyas. U.S.	Solar Energy Society of India, Life Member, Member-ship ID: 2412
6	Dr. Hakeem Niyas. U.S.	Indian Society for Heat and Mass Transfer, Life Member, Membership ID: 1162
7	Dr. Hakeem Niyas. U.S.	Indian Society of Heating, Refrigerating and Air-conditioning Engineers, Membership ID: 22259
8	Dr. Sivasankari Sundaram	Solar Energy Society of India, Life member, Member-ship ID: 3832
9	Dr. Sivasankari Sundaram	IEEE, Power and Energy, Bengaluru Society Membership ID: 96130003
10	Dr. Roopa Manjunatha	Member, Instrument Society of India
11	Dr. Roopa Manjunatha	IEEE, Member
12	Dr. Roopa Manjunatha	SAE India Member

Books, monographs authored/co-authored

S. No.	Name of Author/Co- Author	Title	Publisher
1	B.J. Bora, A. Jain, S. Garg, C.J. Ramanan, and B.M. Jyothi (2023).	Advances in Gasification Techniques, Bioenergy Engineering, Bioenergy Engineering- Fundamentals, Methods, Modelling and Applications, 133-147,	Elsevier Wood head publishers, https://doi.org/10.1016/B978-0-323-98363-1.00012-0
2	C.J. Ramanan, B.J. Bora, S. Roy, N. Alom, A. Buradi (2023).	CFD Analysis of Pressure and Velocity distribution in Novel Reverse Osmosis Filtration of Crude Biodiesel. Bhattacharyya, S., Verma, S., Harikrishnan, A.R. (eds) Fluid Mechanics and Fluid Power (Vol. 3). FMFP 2021.	Lecture Notes in Mechanical Engineering. Springer, Singapore.405-410, https://doi.org/10.1007/978-981-19-6270-7_68
3	C.J. Sarma, B.J. Bo-ra, D.K., Bora, B.J. Medhi (2023),	Effect of Compression Ratio on Performance and Emission Characteristics of a Rubber Seed Biodiesel Run Diesel Engine. In: Bhattacharyya, S., Verma, S., Harikrishnan, A.R. (eds) Fluid Mechanics and Fluid Power (Vol. 3). FMFP 2021.	Lecture Notes in Mechanical Engineering. Springer, Singapore. 497-501, https://doi.org/10.1007/978-981-19-6270-7_83
4	Dhungana, A. Bu-radi, P. Dahal, P., Bora, B.J. (2023).	Impact of Bifurcation and Bifurcation Angle on the Hemodynamics of Coronary Arteries. In: Bhattacharyya, S., Verma, S., Harikrishnan, A.R. (eds) Fluid Mechanics and Fluid Power (Vol. 3). FMFP 2021.	Lecture Notes in Mechanical Engineering Springer, Singapore. 31-36, https://doi.org/10.1007/978-981-19-6270-7_6
5	C.J. Sarma, B.J. Bo-ra, B.J., D.K. Bora, B.J. Medhi (2023).	Effect of Compression Ratio on Performance, Combustion and Emission Characteristics of a Diesel Engine Fueled with Rubber Seed Biodiesel– Diesel Blends. In: Revankar, S., Muduli, K., Sahu, D. (eds) Recent Advances in Thermofluids and Manufacturing Engineering.	Lecture Notes in Mechanical Engineering. Springer, Singapore. 291-302, https://doi.org/10.1007/978-981-19-4388-1_26
6	Jain, B.J. Bora, R. Kumar, A. Buradi (2023).	Comparative Study of Performance and Emission of Biodiesel Produced from Water Hyacinth and Salvinia Molesta: A Critical Review. In: Revankar, S., Muduli, K., Sahu, D. (eds) Recent Advances in Thermofluids and Manufacturing Engineering.	Lecture Notes in Mechanical Engineering. Springer, Singapore. 377-388, https://doi.org/10.1007/978-981-19-4388-1_33
7	Jain, B.J. Bora, R. Kumar and S. Roy (2022)	The latest advancements in technology to utilize oxygen-ated biofuels in diesel engines, Advancement in Oxygenated Fuels for Sustainable Development.	Elsevier, 97-114. https://doi.org/10.1016/B978-0-323-90875-7.00015-0
8	Jain, B.J. Bora, and R. Kumar (2022)	Production, performance, and emission analysis of new generation biodiesel in an unmodified engine, Advancement in Oxygenated Fuels for Sustainable Development.	Elsevier, 199-220. https://doi.org/10.1016/B978-0-323-90875-7.00004-
9	Debasis De and Hakeem Niyas US	Nanostructured semiconductor metal oxides for dye-sensitized solar cells	Elsevier https://doi.org/10.1016/B978-0-323-91206-8.00019-4
10	K. Mukharjee, R K Layek and Debasis De	Tailored functional materials	Springer
11	S Sundaram, Sa-ransh Chourey and Abhijeeth Rathore	Configurations of Converters Applied to Electric Vehicles with Comprehensive Control Strategies and Optimization	CRC Press, 2023. www.routledge.com/9781032164199 ISBN 9781032164199
12	D Rizvi, Roopa G Manjunatha, N Po-lai and D De	Performance Analysis of a Solar Power Plant	Lecture Notes in Electrical Engineering book series - Springer, Singapore
13	Das A. and Roopa G Manjunatha	Modeling of Graphene Oxide Coated QCM Sensor for E-Nose Application	Recent Trends in Materials - Springer, Singapore
14	Vaishak, Roopa G Manjunatha. and Manjunatha, G	Piezoelectric Energy Harvesting from automotive wheels	Recent Trends in Materials - Springer, Singapore
15	Monisha Manju-natha and Roopa G Manjunatha	Quasi-static failure analysis of lithiumion battery (LIB) used in the electric vehicle	Materials Today: Proceedings

Annual Report 2022-2023

Editorial boards of journals

S. No	Name of Faculty Member	Position (Editor/ member)	Name of Journal
1	Dr. Sivasankari Sundaram	Advisory and Edi-torial Member	Journal of Next Generation Technology ISSN: 2583-021X

Design and Development Activities

New facilities added

S. No.	Details (Infrastructure, Equipments, etc.)	Value (in Lakhs of Rupees)
Institute Development		
1	Softwares 1. Labview 2. Multisim	18.00 Lakhs
2	Electric Vehicle Laboratory	120.00 Lakhs
Dr. Roopa Manjunatha		
3	Syringe pump (Research)	0.50 Lakhs
Dr. Sivasankari Sundaram		
4	Thermal Imaging set up (Research)	1.57 Lakhs
5	EL testing set up for Solar PV reliability (Research)	5.19 Lakhs

Patents Filed

S. No.	Name of Faculty Member	Title of Patent
1	Dr. Arjun Deo	A suspension based integrated auxiliary power stor-age unit in an electric vehicle and method of opera-tion thereof

Research and Consultancy

Sponsored research projects

S. No.	Title	Period	Funding Agency	Amount (in lakhs of Rs.)	Co- ordina-tor
1	Development of cat-alyt-coupled photo-electrodes for re-newable energy	2023-25	UGC-DAE Consortium for Scientific Research, Government of India	1.95 Lakhs	Dr. Debasis De

Industrial consultancy projects

S. No.	Name of Faculty Mem-ber	Title	Industry	Amount (in lakhs of Rs.)
1	Dr. Bhaskor J Bora	Technical sup-port for installa-tion and com-missioning of North East In-dia's largest Compressed Bio-gas Plant capaci-ty of 8TPD under SATAT scheme	Gyan Jyoti Foundation and Red lemon Technologies Pvt. Ltd, Assam, India	Total cost of the plant is 20 crores

Research Publications

S. No.		No.
1.	Total Number of Papers Published in Refereed International Journals	37
2.	Total Number of Papers Presented in International Conferences	9
3	Total Number of Papers Presented in International Conferences	21

Refereed International Journals

1. A. Jain, B.J. Bora, R. Kumar, P. Sharma, B.J. Medhi, A.A. Farooque, V. Tirth, N. Senthikumar, P.K. Peyyala, Impact of Titanium Dioxide (TiO₂) Nanoparticles Addition in Eichhornia Crassipes Biodiesel used to Fuel Compression Ignition Engine at Variable Injection Pressure, Case Studies in Thermal Engineering, 292, (2023), 103295, <https://doi.org/10.1016/j.csite.2023.103295>
2. M.J. Deka, P. Kalita, A.D. Kamble, B.J. Medhi, D. Das, P. Sharma, B.J. Bora (2023), An approach towards building robust neural networks models using multilayer perceptron through experimentation on different photovoltaic thermal systems, Energy and Conversion Management 292, (2023), 117395, <https://doi.org/10.1016/j.enconman.2023.117395>
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7. H. Deka, G. Biswas G, B.J. Bora, Head-on collision of dissimilar viscosity drops, The American Chemical Society Langmuir, 39, (2023) 8130-8140, <http://dx.doi.org/10.1021/acs.langmuir.3c00528>
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9. D. Mallik, P. Sharma, B.J. Bora, D. Baruah, B. Deepanraj, Mechanistic investigation of pyrolysis kinetics of water hyacinth for biofuel employing iso-conversional method, Sustainable Energy Technologies and Assessments, 57, (2023) 103175, <https://doi.org/10.1016/j.seta.2023.103175>
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12. B.J. Bora, P. Sharma, B. Deepanraj, U. Agbulut, Investigations on a Novel Fuel water Hyacinth Biodiesel and Hydrogen –Powered Engine in Dual Fuel Model: Optimization with I-optimal design and Desirability, Fuel, 245, (2023), 128057, <https://doi.org/10.1016/j.fuel.2023.128057>
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Articles from the Department/Centre with maximum no. of Citations in last 5 years

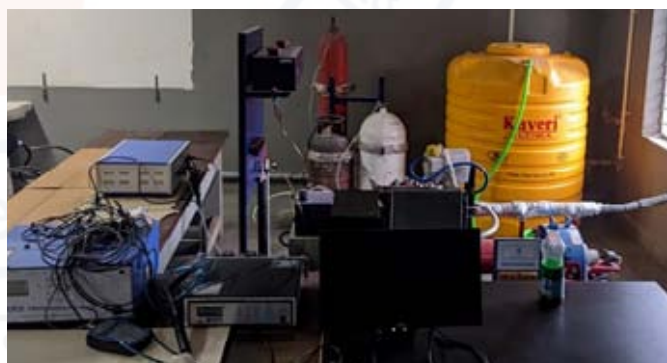
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Computer Simulation Lab



Advanced Biofuel Testing Laboratory



Material Characterization Laboratory



Electric Vehicle Technology Laboratory

Chapter 21

Audited Financial Report of 2022-23

Accounts for the Year 2022-23

The Audited Accounts of RGIPT for the year 2022-23 are attached as Annexure-I. The highlights of the Accounts are as follows:

1. Corpus Fund/Capital Fund (Schedule 1 to Balance Sheet)

Jais

The Corpus Fund of Rs 33360 lakh (which includes Rs 25000 lakh contributed by the promoting Oil PSUs and surplus interest ploughed back) which stands invested in Bank FDs. The interest earnings from this fund are utilized for recurring expenses and surplus is reinvested on regular basis.

Assam

The Corpus Fund of Rs. 25020 lakh (which includes Rs 14703 lakh contributed by participating Oil PSUs and surplus interest ploughed back) which stands invested in Bank FDs. The interest earning has been used for recurring expenses and surplus is reinvested on regular basis.

At the year end the excess of income over expenditure to the extent of the surplus interest lying invested in FDs with banks/Non-tradable Government Securities has been ploughed back to Corpus Fund as follows:

	Jais (Rs. in lakhs)	Assam (Rs. in lakhs)
From Income & Expenditure account for 2022-23	Nil	Nil

Fund towards Capital Expenditure

The status of Capital Fund received as on 31.03.2023 from Government of India and Grant from OIDB/PSU is as follows:

A. Jais Campus:

- GOI Fund of Rs. 36910 lakh was received up to 31.03.2023 During the year 2000 lakh was transferred from Reserve Fund.

- OIDB Grant received up to 31.03.2023 amounts to Rs. 15000 lakh

B. Assam Centre:

- The Capital Fund received from GoI, PSUs and OIDB upto 31.03.2023 amounted to Rs. 20562 lakh.

C. Bengaluru Centre:

- GOI Fund of Rs. 10000 lakh was received up to 31.03.2023

2. Reserve and Surplus (Schedule 2 to Balance Sheet)

General Reserve

During the year, Rs. 1379 lakh has been credited to General Reserve by way of transfer of the excess of income over expenditure as on 31.03.2023

3. Earmarked Funds: (Schedule 3 to Balance Sheet)

Earmarked Fund of Rs. 42.12 lakh as on 31.03.2023. Represents the balance available in Scholarship Fund after utilization of Rs Nil during the year.

4. Deferred Credit Liability (Schedule 4 to Balance Sheet)

The amount of Rs. 721.10 lakh as on 31.03.2023 represents the balance amount of Research Project Grants received from various agencies like Department of Science and Technology (DST), SERB, DAE, etc. for future utilization.

5. Current Liabilities & Provisions (Schedule 5 to Balance Sheet)

- Rs. 929.98 lakh as on 31.03.2023 represents liability for unpaid bills towards revenue expenses/ bills.
- Rs. 109.84 lakh is liability towards outstanding Statutory Dues for March 2023 payable in April 2023
- Includes Rs. 449.51 lakh towards refundable EMD/ Security Deposit / Retention Money and Student Alumni /Welfare Fund.
- Based on Actuarial Valuation the accumulated provision of Rs. 88419 Lakh has been made towards Retirement benefits for Gratuity and Leave Encashment in current year accounts.

Annual Report 2022-2023

5. A provision of Rs. 41.80 Lakh has been made toward balance of deposit receivable from U.P.S.I.D.C.

- Rs. 1021.70 lakh on account of accrued interest income on investment

6. Fixed Assets (Schedule 6 to Balance Sheet)

Capital items amounting to Rs 6317.24 lakh were added during the current year which includes Buildings, Plant and Machinery, Furniture, Building Management System, Electric Equipment and other assets. The Gross Block of Fixed Assets amounted to Rs.54864.30 lakh including land and the Net Block of Fixed Assets amounted to Rs. 42058.93 Lakh after deduction of Rs. 12805.37 Lakh on account of depreciation and adjustments during the years.

7. Capital Work in Progress (Schedule 6 to Balance Sheet)

The Capital Work in Progress as on 31.03.2023 amounted to Rs. 10873.08 Lakh which represents capital expenses of all Centers.

8. Investments (Schedule 7 and 8 to Balance Sheet)

Investments from earmarked fund of Rs. 24 lakh represents scholarship grant received from Chevron.

Investments of Rs. 88419 is made with L.I.C. against the Gratuity & Leave Encashment Funds of all three Centres.

9. Current Assets & Loans and Advances (Schedule 9 to Balance Sheet)

The Bank Balance of Rs. 95392.89 lakh as on 31.03.2023 includes the following amount

- Rs. 83593.01 Lakh towards Fixed Deposits with various Banks
- Loans and advances include:

10. Income (Schedule 10, 11 and 12)

Total Income of Rs 6053.08 lakh includes interest earning from Fixed Deposits of Rs. 3583.14 Lakh (including other income of Rs 362.50 lakh) and Rs. 2107.45 Lakh towards Students' Fee and Application Fee.

11. Expenditure (Schedule 13, 14 and 15)

The major head wise expenses for the year are tabulated in Schedule 13, 14 and 15 along with previous year figures as per the summary given below:

Schedule No	Expenses	2021-22 (Rs. in lakhs)	2022-23 (Rs. in lakhs)
13	Academic	899.74	1114.08
14	Establishment	2633.36	3153.33
15	Other Administrative	913.45	907.13
Total		4446.55	5174.54

12. Audit Report on Accounts

The Finance Committee and Board of Governors in the meetings held on 21.07.2023 has considered the Accounts for the year 2022-23. The Audit Report is issued by the Principal Director, Commercial Audit & Ex-Officio Member, Audit Board II, New Delhi. A copy of the Audit Report No. DGA/Rep/01-278/Acs-RGIPT/2022-23/730 dated 22.02.2023 is attached in Annexure-II.

ANNUAL ACCOUNTS FOR THE FINANCIAL YEAR 2022–23



विधारत्नम् महद्भनम्

Rajiv Gandhi Institute of Petroleum Technology
Jais, Amethi, Uttar Pradesh



Rajiv Gandhi Institute of Petroleum Technology, Jais

(An Institution of National Importance Established under an Act of Parliament)

Jais, Amethi, Uttar Pradesh, India

ACCOUNTS FOR THE FINANCIAL YEAR 2022-23

1. BALANCE SHEET AS ON 31ST MARCH 2023

2. INCOME AND EXPENDITURE ACCOUNT FOR YEAR ENDED 31ST MARCH 2023

3. RECEIPT & PAYMENT ACCOUNT FOR YEAR ENDED 31ST MARCH 2023

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)				
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS				
BALANCE SHEET AS AT 31ST MARCH' 2023				
CORPUS/ CAPITAL FUND AND LIABILITIES	SCHEDULE	CURRENT YEAR	PREVIOUS YEAR	AMOUNT(₹)
CORPUS /CAPITAL FUND	1	13,77,27,87,080.67	13,69,45,08,197.07	
RESERVES AND SURPLUS	2	1,10,88,80,587.83	1,17,53,99,517.81	
EARMARKED / ENDOWMENT FUNDS	3	42,12,078.38	38,94,357.38	
DEFERRED CREDIT LIABILITIES	4	7,21,09,570.83	6,09,78,212.64	
CURRENT LIABILITIES AND PROVISIONS	5	80,21,57,826.87	1,20,05,70,507.49	
TOTAL		15,76,01,47,144.58	16,13,53,50,792.39	
ASSETS				
FIXED ASSETS	6	5,29,32,00,867.59	4,36,59,32,755.15	
INVESTMENTS- FROM EARMARKED/ENDOWMENT FUNDS	7	24,00,000.00	24,00,000.00	
INVESTMENTS-OTHERS	8	8,84,19,078.00	6,07,13,309.00	
CURRENT ASSETS, LOANS, ADVANCES ETC.	9	10,37,61,27,198.99	11,70,63,04,728.24	
TOTAL		15,76,01,47,144.58	16,13,53,50,792.39	
SIGNIFICANT ACCOUNTING POLICIES	17	Enclosed	Enclosed	
CONTINGENT LIABILITIES AND NOTES ON ACCOUNTS	18	Enclosed	Enclosed	
ASSISTANT REGISTRAR (ACCOUNTS)		Registrar	DIRECTOR	PRESIDENT (BOG)

Signed on: 20 JUL 2023



FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)				
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS				
INCOME AND EXPENDITURE FOR THE PERIOD/YEAR ENDED 31ST MARCH 2023				
	INCOME	SCHEDULE	CURRENT YEAR	PREVIOUS YEAR
				AMOUNT (₹)
FEES/SUBSCRIPTIONS		10	21,07,44,979.85	16,49,25,017.26
INTEREST EARNED		11	35,83,13,517.00	37,96,10,577.49
OTHER INCOME		12	3,62,50,049.47	2,64,44,459.14
DEFERRED REVENUE INCOME (Depreciation)			18,20,31,681.00	15,39,28,606.71
	TOTAL - (A)		78,73,40,227.32	72,49,08,660.60
	EXPENDITURE			
ACADEMIC EXPENSES		13	11,14,08,188.85	8,99,74,429.35
ESTABLISHMENT EXPENSES		14	31,53,32,664.00	26,33,35,672.00
OTHER ADMINISTRATIVE EXPENSES		15	9,07,13,317.25	9,13,44,630.68
DEFERRED REVENUE EXPENSES (Depreciation - corresponding to Schedule - 6)			18,20,31,681.00	15,39,28,606.71
	TOTAL - (B)		69,94,85,851.10	59,85,83,338.74
EXCESS OF INCOME OVER EXPENDITURE FOR THE YEAR C = (A-B)			8,78,54,376.22	12,63,25,321.86
ADD : PRIOR PERIOD ADJUSTMENT (NET)	(D)	16	5,00,38,223.20	(6,11,88,900.06)
NET EXCESS OF INCOME OVER EXPENDITURE	(C+D)		13,78,92,599.42	6,51,36,421.80
TRANSFER TO GENERAL RESERVE			13,78,92,599.42	6,51,36,421.80
SURPLUS/(DEFICIT) CARRIED TO CORPUS/CAPITAL FUND			0.00	0.00
SIGNIFICANT ACCOUNTING POLICIES		17	Enclosed	
CONTINGENT LIABILITIES AND NOTES ON ACCOUNTS		18	Enclosed	
ASSISTANT REGISTRAR (ACCOUNTS)	<i>Am</i>			
REGISTRAR	<i>Arundha</i>			
DIRECTOR	<i>Am</i>			
PRESIDENT (BOG)	<i>SSR</i>			

Signed on: 20 JUL 2023

PREVIOUS YEAR	RECEIPTS	AMOUNT (Rs.)	AMOUNT (Rs.)	PREVIOUS YEAR	PAYMENTS	AMOUNT (Rs.)	AMOUNT (Rs.)
	OPENING BALANCES						
	WITH SCHEDULED BANKS				EXPENSES		
20,61,731.11	IN SAVING ACCOUNTS				Academic Expenses	11,55,96,085.85	
8,95,540.10	ICICI Bank-0000701260248	25,09,283.11		8,63,65,678.45	Establishment Expenses	31,53,78,560.00	
2,35,81,597.51	Allahabad Bank-50327100399	-		24,67,36,629.00	Administrative Expenses	9,16,99,648.50	
37,36,80,196.24	Allahabad Bank-50192401170	(1,00,58,353.00)		7,51,49,583.36	Prior Period Expenditure	6,936.00	52,26,81,230.35
83,36,384.94	Andhra Bank-008410100027721	-		1,13,57,735.37			
41,16,72,101.30	HDFC Bank-00031110004499	93,800.94			REFUNDS/OTHER PAYMENTS		
1,07,55,874.79	Allahabad Bank-50441574197	33,31,89,833.78		2,12,54,278.68	Utilization of Research/Other Grants	2,80,76,694.89	
	Bank of Baroda-37350100004760	46,75,000.00		-	Refund to Students	53,97,832.00	
1,13,251.00	ICICI Bank-0000701258840	1,13,251.00		18,60,438.00	Institute Development Fund (Mess Fees)	-	
61,74,508.17	ICICI Bank-034301002171	-		20,00,000.00	Institute Development Fund (Fund Transfer to NTPC Project)	-	
3,59,787.17	HDFC Bank (FCRA)-00031170000095	-		29,29,519.00	Institute Development Fund (Fund utilised)	6,87,332.00	
34,86,436.00	State Bank of India-31936731040	41,27,203.00		-	SERB Project Fund Returned	11,38,323.40	
44,36,26,300.80	Andhra Bank-008410100014268	-		-	Statutory Liability Paid	12,39,54,233.00	
41,20,87,248.11	Bank of Baroda-594801000000001	36,61,33,435.00		-	Research Grant Refunded	25,71,089.00	
				-	Other Payments	76,28,357.00	
				-	Imprest	50,000.00	16,95,03,861.29

ASSISTANT REGISTRAR (ACCOUNTS)

Am

REGISTRAR

Spndrg

DIRECTOR

Am

PRESIDENT (BOD)

Spndrg

Contd.

Signed on: 20 JUL 2023

RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS						
RECEIPT AND PAYMENT ACCOUNT FOR THE YEAR ENDED 31ST MARCH 2023						
PREVIOUS YEAR	RECEIPTS	AMOUNT (Rs.)	AMOUNT (Rs.)	PREVIOUS YEAR	PAYMENTS	AMOUNT (Rs.)
1,73,85,215.16	Bank of Baroda- 59480100000382	10,62,52,923.89		-		
1,61,59,767.48	Corporation Bank- 520101258696679	-				
1,418.60	Corporation Bank- 520101255658060	6,73,557.00		2,80,69,796.97	PAYMENTS	
4,24,784.00	Indian Overseas Bank- 125501000020082	8,03,382.00		6,07,13,309.00	Payment to Sundry Creditors	5,10,88,383.86
46,86,36,656.54	Corporation Bank- 5201411001656188	-		14,19,734.58	Payment to Creditors For Others	6,46,49,253.36
10,56,702.00	Indian Bank- 50524153041	32,33,590.00		26,94,698.00	Investment for Gratuity & Others	-
3,60,356.14	State Bank of India- 3478552906-2	35,12,467.12			Payment For Inventories	-
-	Bank of Baroda- Chevron Scholarship Accounts- 1914	90,63,229.77			Advance Paid to CPWD for Capital works	26,02,00,000.00
-	Bank of Baroda- Fee- 1913	37,14,526.69			Payment for FDR	2,49,24,39,981.20
-	State Bank of India- Capital Account EIB- 082316	1,04,42,99,824.18			Payment to NOCL	62,81,19,733.00
-	State Bank of India- Capital Account RGPT- 082860	70,05,48,087.84			Payment to Nirmitha Kendra- Bengaluru	19,76,59,632.00
-	State Bank of India- Capital Account AEI- 083148	1,45,27,42,267.34			ADVANCES	
-	Bank of Baroda- RGPT, Raichur- 004760	11,027.48		1,17,181.00	Advance To Staff	-
						3,69,41,56,983.42
Assistant Registrar (Accounts)		Registrar		Director		President (BOG)

20 JUL 2023

Signed on:


PRESIDENT (BOG)

129

RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS
RECEIPT AND PAYMENT ACCOUNT FOR THE YEAR ENDED 31ST MARCH 2023

PREVIOUS YEAR	RECEIPTS	AMOUNT (Rs.)	AMOUNT (Rs.)	PREVIOUS YEAR	PAYMENTS	AMOUNT (Rs.)	AMOUNT (Rs.)
76,07,099.00	INTEREST EARNED Interest on Bank Guarantee Invoked	-					
1,77,04,929.00	Interest on FDRs - Capital Fund JAIS	1,36,84,962.00					
1,44,68,876.00	Interest on FDRs- Capital Fund (Assam)	2,20,61,262.00					
30,60,670.00	Interest on FDRs- Capital Fund (EIB)	1,42,31,613.00					
7,35,266.00	Interest received on Research Grants	27,47,572.00					
1,43,998.00	Interest on FDRs- Earmarked Endowment Fund	1,34,055.00					
36,72,06,880.49	Interest on FDRs- Scheduled Banks	38,99,58,561.00					
-	Interest received from Bank	1,29,62,119.00	45,57,89,144.00				
-	REFUNDABLE/ TRANSFERABLE RECEIPTS						
-	P.Y. Accrued Income Received	-					
26,70,000.00	Security Deposit From Students	-					
3,62,000.00	Student Welfare Fund	-					
3,36,600.00	Student Fee Refundable	12,06,300.00					
4,89,800.00	Alumni Membership Fund	5,20,202.00					
21,28,980.00	Retention Money Received	-					
	ASSISTANT REGISTRAR (ACCOUNTS)						
	REGISTRAR						
	DIRECTOR						
	PRESIDENT (BOG)						

20 JUL 2023

Signed on:

Signed on: 20 JUL 2023

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RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS						
RECEIPT AND PAYMENT ACCOUNT FOR THE YEAR ENDED 31ST MARCH 2023						
PREVIOUS YEAR	RECEIPTS	AMOUNT (Rs.)	AMOUNT (Rs.)	PREVIOUS YEAR	PAYMENTS	AMOUNT (Rs.)
	<u>Other Received</u>					
2,36,46,469.14	Received from Sundry Debtors	1,99,74,685.68		1,13,251.00	ICICI Bank - 600701258840	1,13,251.00
3,75,813.00	Advances Received	-		41,27,203.00	State Bank of India - 31936731040	72,30,943.00
24,19,686.00	On Capital Accounts	-		36,61,33,435.00	Bank of Baroda - 59480100000001	4,50,51,356.14
5,00,000.00	Security Deposit Received	9,99,784.00		10,62,52,923.89	Bank of Baroda - 59480100000382	10,27,35,611.03
-	Interest on IT Refund	3,76,038.00		6,73,557.00	Corporation Bank - 520101255658060	81,113.80
1,76,50,88,642.00	FDR Matured	2,30,37,86,975.00		8,03,382.00	Indian Overseas Bank - 125501000020082	8,64,743.00
17,20,354.00	Recovery of Staff Advance	20,03,845.00		32,33,590.00	Indian Bank - 50524153041	21,543.00
-	Advance Settled by India Habitat Centre	38,864.00		35,12,467.12	State Bank of India - 3478552906-2	5,74,68,745.53
-	IDF Advance Settled	14,624.00		90,63,229.77	Bank of Baroda - Chevron Scholarship Accounts-1914	15,520.90
-	Tender Fees	62,080.00		37,14,526.69	Bank of Baroda - Fee-1913	95,62,489.22
-	Sale of Old Bus	3,66,980.00		1,04,42,99,824.18	State Bank of India - Capital Account, EIB-082316	21,73,98,456.68
-	Returned from Vendor	3,79,712.00		70,05,48,087.84	State Bank of India - Capital Account, Jais-082860	12,06,94,572.34
				1,45,27,42,267.34	State Bank of India - Capital Account, AEI-083148	34,07,64,175.84
Assistant REGISTRAR (ACCOUNTS)						
REGISTRAR						
DIRECTOR						
PRESIDENT (BOG)						

Contd.

Signed on: 20 JUL 2023

Contd.

RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS RECEIPT AND PAYMENT ACCOUNT FOR THE YEAR ENDED 31ST MARCH 2023							AMOUNT (₹)	
PREVIOUS YEAR	RECEIPTS	AMOUNT (₹)	AMOUNT (₹)	PREVIOUS YEAR	PAYMENTS	AMOUNT (₹)	AMOUNT (₹)	AMOUNT (₹)
-	Gratuity & Leave Encashment Contribution received from NIFTEM	3,50,446.00		11,027.48	Bank of Baroda- 004760 (Raebareilly)	14,038.36		
-	Leave Salary Contribution received from FSSAI	1,25,206.00		4,73,99,982.30	AEI Project Grant Account- 001915	6,44,70,623.40		
-	Service Benefits Received from IIPET	1,39,039.00		35,57,892.00	Axis Bank-583120	35,08,619.00		
-	Recovery of License Fees from Ph.D. Students	1,69,805.00		-	State Bank of India RGIPT Mess Fee A/c- 41137316469	2,77,15,431.97		
-	Convocation- Fees	1,81,500.00		-	Indian Bank- EIB- 7290143660	1,22,025.00		
-	RTI Fees	180.00		-	Canara Bank - 110076198882	89.60		
-	Income from Guest Hostel	10,20,354.00		-	Cheque-in-hand	6,040.00		
-	Rent Recovered from Bank of Baroda, RGIPT	45,240.00		(86,02,300.64)	Bank of Baroda- AEI Revenue Accounts- 1916	1,49,14,815.21		
-	Bonafide and Marksheet Verification Charges	2,06,304.76				1,17,99,93,577.85		
-	Vehicles Charges Recovered	1,05,824.20			WITH SCHEDULED BANKS			
-	Recovery of Electricity Charges	6,14,510.56		6,84,99,53,022.00	IN DEPOSIT ACCOUNTS	8,35,93,01,464.00		
			2,33,09,61,997.20	24,00,000.00	FDR with HDFC	24,00,000.00		9,54,16,95,041.85
Assistant Registrar (Accounts)								
Assistant Registrar (Accounts)								
Registrar								
Director								
President (BOG)								

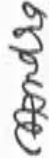
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20 JUL 2023

Signed on:



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RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS						
RECEIPT AND PAYMENT ACCOUNT FOR THE YEAR ENDED 31ST MARCH 2023						
PREVIOUS YEAR	RECEIPTS	AMOUNT (Rs.)	AMOUNT (Rs.)	PREVIOUS YEAR	PAYMENTS	AMOUNT (Rs.)
	<u>CONTRA ITEMS</u>					
16,99,770 00	Imprest Cash					
-	Payment to Creditors Cancel	11,88,119 00				
-	Cheque Cancelled- CPWD Dibrugarh, Assam	15,00,00,000 00		16,99,770 00	Imprest Cash	
-	Cheque Cancelled- Statutory Liabilities	2,76,66,808 00		1,76,50,88,642 00	Bank To Bank Transfer	
17,20,81,719 00	Cancelled Cheques - NCCL	54,15,40,477 00	72,03,95,404 00	-	Payment to Creditors Cancel	11,88,119 00
				-	Cheque Cancelled- Statutory Liability	2,76,66,808 00
				-	Cancelled Cheques- CPWD Dibrugarh, Assam	15,00,00,000 00
				16,79,12,509 00	Cancelled Cheques - NCCL	54,15,40,477 00
				17,20,354 00	Advance Staff/Others	72,03,95,404 00
13,60,78,42,033.17	TOTAL		14,79,93,19,387.55	13,60,78,42,033.17	TOTAL	14,79,93,19,387.55
ASSISTANT REGISTRAR (ACCOUNTS) 		REGISTRAR 		DIRECTOR 		PRESIDENT (BOG) 



20 JUL 2023

Signed on: _____



Rajiv Gandhi Institute of Petroleum Technology, Jais
Jais, Amethi, Uttar Pradesh, India

ACCOUNTS FOR THE FINANCIAL YEAR 2022-23

SCHEDULES FORMING PART OF BALANCE SHEET AND INCOME & EXPENDITURE ACCOUNT

1.	SCHEDULE-1	CORPUS/CAPITAL FUND
2.	SCHEDULE-2	RESERVES AND SURPLUS
3.	SCHEDULE-3	EARMARKED/ENDOWMENT FUNDS
4.	SCHEDULE-4	DEFERRED CREDIT LIABILITIES
5.	SCHEDULE-5	CURRENT LIABILITIES AND PROVISIONS
6.	SCHEDULE-6	FIXED ASSETS
7.	SCHEDULE-7	INVESTMENTS FROM EARMARKED/ENDOWMENT FUNDS
8.	SCHEDULE-8	INVESTMENTS-OTHERS
9.	SCHEDULE-9	CURRENT ASSETS, LOANS & ADVANCES ETC.
10.	SCHEDULE-10	FEES/SUBSCRIPTIONS
11.	SCHEDULE-11	INTEREST EARNED
12.	SCHEDULE-12	OTHER INCOME
13.	SCHEDULE-13	ACADEMIC EXPENSES
14.	SCHEDULE-14	ESTABLISHMENT EXPENSES
15.	SCHEDULE-15	OTHER ADMINISTRATIVE EXPENSES
16.	SCHEDULE-16	PRIOR PERIOD ADJUSTMENT
17.	SCHEDULE-17	SIGNIFICANT ACCOUNTING POLICIES
18.	SCHEDULE-18	NOTES ON ACCOUNTS AND CONTINGENT LIABILITIES

Signed on: 20 JUL 2023

Dr. D. K. Singh

[Signature]



NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS

SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH' 2023

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)		
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS		
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH' 2023		
	AMOUNT(₹)	
SCHEDULE - 1 - CORPUS / CAPITAL FUND		
CAPITAL FUND- RGIPT		
Government of India Budgetary Support		
Balance as at the beginning of the year	4,25,60,87,188.00	
Add : Contribution during the year	0.00	
	4,25,60,87,188.00	
Less: Previous Year Adjustment against Capital Fund (Own Contribution)	13,69,00,000.00	
	4,11,91,87,188.00	
Capital Fund Jais (Own Contribution)		
Add : Contribution during the year	13,69,00,000.00	
	4,25,60,87,188.00	
Add : Interest for the year from Bank	1,77,04,829.00	
	4,27,37,92,017.00	
Capital Grant from Oil Industry Development Board		
Balance as at the beginning of the year	1,67,05,80,427.00	
Add : Contribution during the year	0.00	
Add : Interest for the year from Bank	30,60,670.00	
	1,67,36,41,097.00	
Less: Transfer to Assam Capital fund from Oil Companies During the Year	0.00	
	1,67,36,41,097.00	

Contd ...

[Signature] REGISTRAR

[Signature] DIRECTOR

[Signature] PRESIDENT (BOG)

20 JUL 2023

Signed on:

Contd

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)			AMOUNT(₹)	
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS				
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH' 2023				
SCHEDULE - 1 - CORPUS / CAPITAL FUND	CURRENT YEAR	PREVIOUS YEAR		
CAPITAL FUND- AEI				
Balance as at the beginning of the year	1,96,66,66,649.00	1,06,54,97,773.00		
Add: Contribution during the year	0.00	1,00,00,00,000.00		
Less: Transfer to Assam Corpus	0.00	-49,00,00,000.00		
Add : Received from Capital Grant from O.N.G.C. Ltd.	0.00	32,93,00,000.00		
Add : Received from Capital Grant from G.A.I.L	0.00	4,74,00,000.00		
Add : Received from Capital Grant from Oil India Ltd.	3,83,00,000.00	0.00		
Add : Interest from Bank	5,12,31,126.00	1,44,68,876.00		
		1,96,66,66,649.00		
CAPITAL FUND- EIB				
Balance as at the beginning of the year	1,00,00,00,000.00			
Add : Contribution during the year	0.00	1,00,00,00,000.00		
Add : Interest for the year from Bank	5,24,23,192.00	1,05,24,23,192.00		
		1,00,00,00,000.00		
TOTAL CAPITAL FUND				
Less : Capital Fund Adjustment- AEI (Depreciation)				
Up to previous year	1,13,77,456.61	94,67,854.28		
During the current year	99,25,252.60	19,09,602.33		
	2,13,02,709.21	1,13,77,456.61		
Less : Capital Fund Adjustment- EIB (Depreciation)				
Up to previous year	17,21,635.83	17,21,635.83		
During the current year	41,23,476.80			
	58,45,112.63	17,21,635.83		
		8,91,40,99,763.00		
ASSISTANT REGISTRAR (ACCOUNTS)			Contd ...	
				
REGISTRAR			DIRECTOR	
PRESIDENT (BOG)				

Signed on: 20 JUL 2023

Contd.

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)			
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS			
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH' 2023			
SCHEDULE - 1 - CORPUS / CAPITAL FUND	AMOUNT(R)		
	CURRENT YEAR	PREVIOUS YEAR	
Less : Capital Fund Adjustment- RGIFT (Depreciation)			
Up to previous year	1,03,75,37,288.04	88,72,39,919.49	
During the current year	27,03,11,667.00	15,02,97,368.55	
	1,30,78,48,955.04	1,03,75,37,288.04	1,05,06,36,380.48
CORPUS FUND			
AEI, SIVASAGAR			
Balance as at the beginning of the year			7,86,34,63,382.52
Add : Transfer from Capital Fund Assam	2,49,50,27,926.42	2,00,50,27,926.42	
Add : Corpus Fund Received From Oil Companies	0.00	49,00,00,000.00	
Less: Transfer to Assam Capital Fund	70,00,000.00	0.00	
			2,49,50,27,926.42
RGIFT, JAIS			
Balance as at the beginning of the year			
Fund Balance	3,33,60,16,888.13	3,33,60,16,888.13	
Surplus Interest	0.00	0.00	
Add: P.Y Adjustment- Amount wrongly debited to Corpus Fund	0.00	0.00	
Excess of Income over Expenditure	0.00	0.00	
Add: Contributions received during the year	3,33,60,16,888.13	3,33,60,16,888.13	
	0.00	0.00	
Add : Surplus Funds Allocated	3,33,60,16,888.13	3,33,60,16,888.13	
Add: Transfer from Income & Expenditure	0.00	0.00	
	0.00	0.00	
	3,33,60,16,888.13		3,33,60,16,888.13
Total			
	5,83,80,44,814.55		5,83,10,44,814.55
BALANCE AS AT THE YEAR END	13,77,27,87,080.67		13,69,45,08,197.07
<i>[Signature]</i> ASSISTANT REGISTRAR (ACCOUNTS) <i>[Signature]</i> DIRECTOR <i>[Signature]</i> PRESIDENT (BOG)			

Signed on: 20 JUL 2023

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS) NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH' 2023				AMOUNT(₹)	
SCHEDULE - 2 - RESERVES AND SURPLUS		CURRENT YEAR		PREVIOUS YEAR	
1. CAPITAL RESERVE					
As per last account		5,08,00,831.59		5,08,00,831.59	
Addition during the year		0.00		0.00	
Less : Deductions during the year		0.00	5,08,00,831.59	0.00	5,08,00,831.59
2. CONTINGENT FUND- (PREVIOUSLY DEPRECIATION FUND)					
As per last account		0.00		29,20,27,226.50	
Add/ Less : Prior period Adjustment (P. Y. Depreciation adjusted)		0.00		0.00	
Less during the year - Transfer to General Reserve		0.00		29,20,27,226.50	
Add : Interest Earned on Investment of Fund during the year		0.00		0.00	
3. GENERAL RESERVE			0.00		0.00
As per last account		1,09,14,15,363.82		73,42,51,715.52	
Less: Transfer to Institute Development Fund		0.00		0.00	
Less: Transfer to Capital Fund (Own Contribution)		20,00,00,000.00		0.00	
Less: Transfer to Institute Development Fund		0.00		0.00	
Less: Transfer to Depreciation Fund		0.00		0.00	
Add: Transfer from Contingent Fund		89,14,15,363.82		73,42,51,715.52	
Addition during the year (Excess of Income over Expenditure)		13,78,92,599.42	1,02,93,07,963.24	29,20,27,226.50	
				6,51,36,421.80	1,09,14,15,363.82
ASSISTANT REGISTRAR (ACCOUNTS)		<i>Dendrg</i>	REGISTRAR	<i>Me</i>	DIRECTOR
ASSISTANT REGISTRAR (ACCOUNTS)				<i>[Signature]</i>	PRESIDENT (BOG)

Contd ...

20 JUL 2023

Signed on: _____

Contd.

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)			
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS			
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH' 2023			
SCHEDULE - 2 - RESERVES AND SURPLUS	CURRENT YEAR	PREVIOUS YEAR	AMOUNT(₹)
4. RESEARCH & DEVELOPMENT			
As per last account	17,79,182.60	27,88,505.60	
Addition during the year	0.00	0.00	
Less: Transfer to Institute Development Fund	5,00,000.00	0.00	
Less: Fund Utilised	12,79,182.60	10,09,323.00	17,79,182.60
5. INSTITUTE DEVELOPMENT FUND			
As per last account	3,14,04,139.80	2,33,99,305.00	
Add: Fund for Payment of Mess Bill	18,60,438.00	0.00	
Add : Other Income (Grant Overhead)	30,46,900.00	23,23,060.00	
Add: Transfer from HAL Korwa	-1,24,71,731.80	1,24,71,731.80	
Add : Fund Transfer to NTPC Project	42,44,715.00	-20,00,000.00	
Add : Fund Transfer from Research & Development	5,00,000.00	0.00	
Less: Fund Utilised	1,87,332.00	-47,89,957.00	3,14,04,139.80
BALANCE AS AT THE YEAR END	1,10,88,80,587.83		1,17,53,99,517.81
ASSISTANT REGISTRAR (ACCOUNTS)	REGISTRAR	DIRECTOR	PRESIDENT (BOG)

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20 JUL 2023

Signed on: _____

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)					
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS					
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH' 2023					
SCHEDULE - 3 - EARMARKED / ENDOWMENT FUND	AMOUNT(₹)		AMOUNT(₹)		AMOUNT(₹)
	CURRENT YEAR	CURRENT YEAR	CURRENT YEAR	PREVIOUS YEAR	
	Opening Balance	Receipts During the year	Closing Balance		
SCHOLARSHIP/ OTHER GRANTS	38,94,357.38				
a) Opening Balance of the Funds					37,50,359.38
b) Additions to Funds					
i. Donations/Grants					
Bhaskar Research Internship	0.00	0.00	0.00	0.00	
Zila Kalyan Karayalaya- Saran/Padmadhikari	0.00	0.00	0.00	0.00	
Bihar State Education Finance Corporation Ltd.	0.00	4,53,632.00	1,83,666.00	0.00	
Director of Technical Education	0.00	0.00	0.00	0.00	
Social Welfare Board Raebareli/	0.00	0.00	0.00	0.00	
District Welfare/Jharkhand State Tribal	0.00	0.00	0.00	0.00	
Scholarship Grant from ONGC	0.00	0.00	0.00	0.00	
Central Sector Scholarship Scheme (MOSIE)	0.00	0.00	0.00	0.00	
ii. Prior Period Adjustments	0.00	0.00	0.00	0.00	
Less: Refunds	0.00	4,53,632.00	1,83,666.00	0.00	0.00
iii. Interest on Investments-					
On Earmarked Funds (Chevron)		134055.00	0.00	1,43,998.00	0.00
iv. Interest Adjustment on Investment-					
On Earmarked Funds (Chevron)			0.00		1,43,998.00
TOTAL (a+b)	38,94,357.38	5,87,687.00	42,12,078.38		38,94,357.38
Contd ...					
ASSISTANT REGISTRAR (ACCOUNTS)	<i>Pth</i>	REGISTRAR	<i>Pdndia</i>	DIRECTOR	PRESIDENT (BOG)

Signed on: 20 JUL 2023

Continued

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)					
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS					
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH* 2023					
SCHEDULE - 3 - EARMARKED / ENDOWMENT FUND	AMOUNT(₹)	AMOUNT(₹)	AMOUNT(₹)	AMOUNT(₹)	AMOUNT(₹)
	CURRENT YEAR	CURRENT YEAR	CURRENT YEAR	CURRENT YEAR	PREVIOUS YEAR
	Opening Balance	Receipts During the year	Closing Balance		
c) <u>Utilisation / Expenditure towards objectives of the Funds</u>					0.00
i. <u>Capital Expenditure</u>					
ii. <u>Revenue Expenditure</u>					
Other Expenditure (Scholarship Distributed)					
Chevron Scholarship	0.00	0.00	0.00	0.00	0.00
Bhaskar Research Internship Award	0.00	0.00	0.00	0.00	0.00
Zila Kalyan Karyalaya- Saran/Padmadikari	0.00	0.00	0.00	0.00	0.00
Unnat Bharat Abhiyan	0.00	0.00	0.00	0.00	0.00
Social Welfare Board Raebareli/District Welfare/Jharkhand State Tribal	0.00	0.00	0.00	0.00	0.00
Bihar State Education Finance Corporation Ltd.	0.00	2,69,966.00	0.00	0.00	0.00
Director of Technical Education	0.00	0.00	0.00	0.00	0.00
Scholarship Grant ONGC	0.00	0.00	0.00	0.00	0.00
Central Sector Scholarship Scheme (MOSJE)	0.00	0.00	2,69,966.00	0.00	0.00
TOTAL (c)			2,69,966.00	0.00	0.00
NET BALANCE AS AT THE YEAR END (a+b-c)			3,17,721.00	42,12,078.38	38,94,357.38
ASSISTANT REGISTRAR (ACCOUNTS)		REGISTRAR		DIRECTOR	PRESIDENT (BOG)

Signed on: 20 JUL 2023

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)			
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS			
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH' 2023			
SCHEDULE - 4 - DEFERRED CREDIT LIABILITIES	CURRENT YEAR	PREVIOUS YEAR	AMOUNT(₹)
Others - Research Grants - Opening Balance	6,09,78,212.64	2,76,07,186.60	
Add : Prior Period Item	0.00	0.00	
Add : Interest Received During the year	27,47,572.00	7,35,266.00	
Add : Received During the year	4,48,87,166.48	5,38,90,038.72	
Less : Refunded During the year	10,86,12,951.12	8,22,32,491.32	
Less : Utilized During the year	53,79,785.40	0.00	
	3,11,23,594.89	2,12,54,278.68	6,09,78,212.64
	7,21,09,570.83		6,09,78,212.64
BALANCE GRANTS REPRESENTED BY :			
Dr. Rakesh Kumar - Council of Science & Tech.	2,52,022.00	1,05,672.00	
Dr. Chanchal Kundu - NBHM	40.00	40.00	
Dr. U.P. Ojha - SERB	15,456.40	15,456.40	
Dr. Chanchal Kundu - DAE	7,267.00	7,267.00	
Dr. U.P. Ojha - DAE	3,61,754.00	3,61,754.00	
Dr. Atul Sharma - DST	45,959.00	45,959.00	
Dr. Alok Kumar Singh - DST	21,601.00	21,601.00	
Dr. Susham Biswas - GEOKNO INDIA	94,456.00	94,456.00	
Dr. Chanchal Kundu - DST	65,574.00	65,574.00	
Dr. Anant Ranjan - DST	27,033.00	27,033.00	
Dr. Shivanjali Sharma - DST	197.00	197.00	
Dr. Tushar Sharma - DST	9,248.00	9,248.00	
Dr. Amritanshu Shukla - DST	2,42,388.00	2,42,388.00	
Contd ...			
ASSISTANT REGISTRAR (ACCOUNTS)	REGISTRAR	DIRECTOR	PRESIDENT (BOG)

Signed on: 20 JUL 2023

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FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)			
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS			
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH' 2023			
SCHEDULE - 4 - DEFERRED CREDIT LIABILITIES	CURRENT YEAR	PREVIOUS YEAR	AMOUNT(₹)
Dr. Debashis Panda - CSIR	2,69,226.12	4,77,816.12	
Niharika Pandey - DST	5,962.00	2,19,109.00	
Dr. G.K. Agrahari - DST	3,30,168.00	15,26,411.00	
Prof. A.S.K. Sinha - DST	96,40,762.00	1,81,34,000.00	
Dr. P.K. Parida - Minority Affairs	14,84,185.00	14,84,185.00	
Dr. Arshad Aijaz - SERB	6,710.00	6,710.00	
Dr. G.R. Dilip - DST	1,520.77	13,02,641.00	
Dr. K.G. Biswas - CSIR	1,74,237.00	7,125.00	
Dr. Arshad Aijaz - CSIR	10,184.00	4,29,791.00	
Prof. A.S.K. Sinha - PCRA	8,02,809.00	19,20,000.00	
Grant Received	3,59,087.00	3,59,087.00	
Dr. Debashis Panda - SERB	5,99,878.63	3,95,049.63	
Dr. Shikha Singh - DST	0.00	18,38,385.00	
Dr. U.P. Ojha - NTPC	5,42,360.00	41,18,106.00	
Scholarship - Ministry of Social Justice	41,360.00	1,30,000.00	
Scholarship - ONGC	60,000.00	60,000.00	
Dr. Alex Kumar Singh - AICTE	1,18,505.00	1,18,505.00	
Dr. Anirban Mukherjee - ICSSR	17,712.00	39,600.00	
Mr. Jyoti (Ph.D) - DST	-16,000.00	4,21,760.00	
Construction of Incubation Centre - HAL, Korwa	2,40,67,495.71	1,65,71,344.80	
Gyan Arpan Project - HAL, Korwa	1,05,99,313.60	54,22,030.00	
Dr. Susham Biswas - SCM	1,50,000.00	1,50,000.00	
ASSISTANT REGISTRAR (ACCOUNTS)	REGISTRAR	DIRECTOR	PRESIDENT (BOG)

Contd ...

Signed on: 20 JUL 2023

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FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)		
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS		
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH' 2023		
SCHEDULE - 4 - DEFERRED CREDIT LIABILITIES	CURRENT YEAR	PREVIOUS YEAR
Dr. Satish Sinha - SEG	11,814.00	1,41,288.00
Dr. V.S. Sistla - CSIR	1,80,000.00	0.00
Interest on Grant	35,92,726.00	8,66,792.00
Dr. Milan Kumar - DSIR	-2,17,966.40	0.00
Dr. Vishnu C - SERB	0.00	17,00,000.00
Dr. J. Karthikeyan - DST	0.00	20,26,539.69
Dr. Tushar Sharma - ONGC	10,44,944.00	0.00
Dr. Abhishek Kumar - SERB	19,27,608.00	0.00
Dr. Shailesh Kumar - SERB	10,23,000.00	0.00
Dr. U.P. Ojha - SERB	18,08,000.00	0.00
Dr. Vipin Amoli - SERB	14,49,450.00	0.00
Dr. Tathamay Basu - SERB	22,78,486.00	0.00
Dr. Tushar Sharma - SERB	8,18,949.00	0.00
Dr. Karan Malik - SERB	17,52,888.00	0.00
Dr. Tathamay Basu - DAE	49.00	0.00
Dr. Satish Sinha - OIL	6,96,432.00	0.00
Dr. S. Shivsankari - SERB	4,792.00	0.00
Dr. S. Kundu - SERB	6,66,625.00	0.00
ASSISTANT REGISTRAR (ACCOUNTS)	REGISTRAR	PRESIDENT (BOG)

Contd ...

Signed on: 20 JUL 2023

Contd.

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)			
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS			
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH' 2023			
SCHEDULE - 4 - DEFERRED CREDIT LIABILITIES	CURRENT YEAR	PREVIOUS YEAR	AMOUNT (₹)
Dr. Mohd. Irfan - ISM	1,81,559.00	0.00	
Mr. Divyanshoo (Ph.D.) - DST	-20,000.00	0.00	
Dr. Amit Saxena - HPCL	3,34,800.00	0.00	
Dr. Alok Kumar Singh - OIL	8,04,536.00	0.00	
Dr. Alpesh Kumar - SERB	2,20,000.00	0.00	
Dr. Shivanjali Sharma - SERB	28,33,470.00	0.00	
Grant from Department of Atomic Energy	2,06,000.00	0.00	
Dr. Satish Kumar Sinha - DGH Project	-22,354.00	0.00	
Mr. Prasad BSN - KSCC (Bengaluru)	10,000.00	0.00	
Grant from CSIR- Dr. K. G. Biswas	1,15,292.00	1,15,292.00	
TOTAL	7,21,09,570.83		6,09,78,212.64
NOTE : Amounts due within one year	7,21,09,570.83		6,09,78,212.64
ASSISTANT REGISTRAR (ACCOUNTS)	REGISTRAR	DIRECTOR	PRESIDENT (BOG)

Signed on: 20 JUL 2023

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS) NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH' 2023				AMOUNT(₹)	
SCHEDULE - 5 - CURRENT LIABILITIES & PROVISIONS		CURRENT YEAR		PREVIOUS YEAR	
A. CURRENT LIABILITIES					
1. Sundry Creditors					
a) For Goods/Services		8,96,76,780.94		6,39,34,846.95	
b) Others		33,21,035.33	9,29,97,816.27	24,23,22,879.52	30,62,57,726.47
2. Advance Fees Received from Students					
		6,06,26,450.00	6,06,26,450.00	2,38,93,215.02	2,38,93,215.02
3. (a) Statutory Liabilities					
b) Others		1,09,83,857.00	1,09,83,857.00	88,90,852.00	88,90,852.00
4. Other Current Liabilities					
a) Preliminary Fund - Bangalore - Opening Balance		50,00,00,000.00	50,00,00,000.00	50,00,00,000.00	50,00,00,000.00
Received during the year		-		-	
Less (Add) : Refunds		-		-	
b) Alumni Fund		25,61,821.00		20,62,400.00	
c) Student Welfare Fund		15,91,558.00		10,85,558.00	
d) Scholarship & Stipend Payable to Ph.D. Students		968.00		6,30,900.00	
e) Others		7,24,384.00		-	
f) Faculty/ Staff		2,50,963.00		-1,17,181.00	
g) B Tech Fees refundable		3,36,600.00		3,36,600.00	
h) Caution Money Payable		1,09,67,800.00		71,32,800.00	
i) Fund for AAPG Student Chapter		64,453.00	1,64,98,547.00	30,238.00	40,76,515.00
j) Retention Money of Vendors		2,33,20,897.60		2,21,30,243.00	
6. Earnest Money Deposit/Security Deposit		51,31,173.00	2,84,52,070.60	74,38,415.00	3,66,53,458.00
TOTAL (A)			70,95,58,740.87		87,97,71,766.49
ASSISTANT REGISTRAR (ACCOUNTS)		Registrar	Director	PRESIDENT (BOG)	

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Signed on: 20 JUL 2023

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FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)			
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS			
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH' 2023			
SCHEDULE - 5 - CURRENT LIABILITIES & PROVISIONS	CURRENT YEAR		PREVIOUS YEAR
	AMOUNT(₹)		
B PROVISIONS			
1. Provision for Gratuity - JAIS	3,02,49,506.00		2,57,90,278.00
2. Provision for Leave Encashment -JAIS	5,07,40,206.00		3,75,08,563.00
3. Provision For Gratuity Assam	29,03,512.00		42,54,571.00
4. Provision For Gratuity Banglore	13,26,382.00		12,92,645.00
5. Provision For Leave Encashment Bangalore	10,33,889.00		11,76,817.00
6. Provision For Leave Encashment Assam	21,65,583.00		21,00,104.00
7. Provision against NCCL Final Bill	-		22,66,53,046.00
8. Provision for Doubtful Debts (UPSIDC)	41,80,008.00		41,80,008.00
9. Provision against PMC Fess JAIS	-		1,78,42,709.00
TOTAL (B)	9,25,99,086.00		32,07,98,741.00
TOTAL (A+B)	80,21,57,826.87		1,20,05,70,507.49
ASSISTANT REGISTRAR (ACCOUNTS)	REGISTRAR	DIRECTOR	PRESIDENT (BOG)

Signed on 20 JUL 2023

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)												
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS												
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH' 2023												
SCHEDULES - 6 - FIXED ASSETS												
DESCRIPTION	Rate of Depreciation	GROSS BLOCK			DEPRECIATION			NET BLOCK				
		COST AS AT BEGINNING OF THE YEAR	ADDITIONS DURING THE YEAR	DEDUCTIONS/ADD DURING THE YEAR	COST/AT THE YEAR-END	AS AT BEGINNING OF THE YEAR	DURING THE YEAR	Prior Period Adjustment	ON DEDUCTIONS/ADD DURING THE YEAR	TOTAL UP TO THE YEAR-END	AS AT THE CURRENT YEAR-END	AS AT THE PREVIOUS YEAR-END
AMOUNT (₹)												
A. FIXED ASSETS- TANGIBLE												
1. LAND												
a) Freehold- RGIP, Jais	0.00%	44703297	0.00	0.00	44703297	0.00	0.00	0.00	0.00	0.00	44703297	44703297
b) Freehold- AEL, Sivassagar	0.00%	6097535	0.00	0.00	6097535	0.00	0.00	0.00	0.00	0.00	6097535	6097535
c) Lease Hold Land- ELB	0.00%	150	0.00	0.00	150	0.00	0.00	0.00	0.00	0.00	150	150
2. BUILDINGS												
a) On Freehold Land- RGIP, Jais	2.00%	3521311851	400341099.00	17842709.00	3903810241	468465115	71900381.21	48096796.71	0.00	588462292.51	3315347948	3052846736
b) On Freehold Land- AEL, Sivassagar	2.00%	0	95892969.00	0.00	95892969	0	1908752.58	4400754.18	0.00	6309506.75	89583462	0
3. PLANT & MACHINERY												
a) General Equipment	5.00%	171990389	0.00	0.00	171990389	85688910	8599519.45	0.00	0.00	94288429.80	77701959	86301479
b) Airconditioners	5.00%	91627855	0.00	0.00	91627855	45650756	4581392.75	0.00	0.00	50232149.00	41395706	45977099
c) Lab Equipments- RGIP, Jais	8.00%	361941969	85585803.22	0.00	447527772	87983314	32291913.42	0.00	0.00	120275227.34	32725254.5	273958655
d) Lab Equipments- AEL, Sivassagar	8.00%	7287066	1629271.00	0.00	8916337	248709	599756.28	0.00	0.00	848465.12	8067872	7038357
e) Lab Equipments- ELB	8.00%	3707639	6684386.00	0.00	10392025	33652	519486.12	0.00	0.00	553138.54	9838886	3673987
f) Fire Fighting System	5.00%	54944027	0.00	0.00	54944027	27374169	2747201.35	0.00	0.00	30121370.40	24822657	27569858
g) Telecom/IT Network	5.00%	59058373	0.00	0.00	59058373	20690709	2952918.65	0.00	0.00	23643627.60	35414745	38367664
h) Building Management System	5.00%	46814361	0.00	0.00	46814361	30262598	2340718.05	0.00	0.00	32603316.20	14211045	16551763
Comd												
ASSISTANT REGISTRAR (ACCOUNTS)												
REGISTRAR												
DIRECTOR												
PRESIDENT (BOG)												

Signed on: 20 JUL 2023

Contd.

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)											
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS											
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH' 2023											
SCHEDULES - 6 - FIXED ASSETS											
DESCRIPTION	Rate of Depreciation	GROSS BLOCK				DEPRECIATION				AMOUNT (₹)	
		COST AS AT BEGINNING OF THE YEAR	ADDITIONS DURING THE YEAR	DEDUCTIONS/ADJ. DURING THE YEAR	COST/AT THE YEAR-END	AS AT BEGINNING OF THE YEAR	DURING THE YEAR	Prior Period Adjustment	ON DEDUCTIONS/ADJ. DURING THE YEAR	TOTAL UP TO THE YEAR-END	NET BLOCK AS AT THE CURRENT YEAR-END
4. VEHICLES	10.00%	15194160	11734.00	1461000.00	13744894	13781300	1413140.60	0.00	1461000.00	13733440.50	11453
5. FURNITURE, FIXTURES											1412860
RGPT, Jais	7.50%	108280662	5007434.00	0.00	113288096	48029180	8204962.12	0.00	0.00	56234141.81	57053954
EIB	7.50%	1555850	0.00	0.00	1555850	223372	116688.75	0.00	0.00	340061.01	1215789
AEI, Sivasagar	7.50%	14862080	940040.00	0.00	15802120	3584854	1241072.90	0.00	0.00	4825926.81	10976193
6. OFFICE EQUIPMENTS											11277226
RGPT, Jais	7.50%	3315330	483100.00	0.00	3798430	2010604	287908.53	0.00	0.00	2298512.88	1499917
AEI, Sivasagar	7.50%	143651	17259.00	0.00	160910	87118	11974.86	0.00	0.00	99092.98	61817
7. COMPUTER/ PERIPHERALS											56533
RGPT, Jais	20.00%	97895168	21849600.00	0.00	119744768	87382792	22463506.12	0.00	0.00	109846598.16	9898470
AEI, Sivasagar	20.00%	6258538	275615.00	0.00	6534153	1390613	1285900.23	0.00	0.00	2676512.90	3857640
EIB	20.00%	14117536	1550000.00	0.00	15667536	2036904	3142849.67	0.00	0.00	5179753.24	10487783
8. ELECTRIC EQUIPMENTS											12080632
RGPT, Jais	5.00%	191654906	3799699.00	0.00	195454605	101297830	9633907.60	0.00	0.00	110951737.47	84522868
AEI, Sivasagar	5.00%	2954332	242520.00	0.00	3196852	265995	151148.82	0.00	0.00	417143.33	2779709
9. LIBRARY BOOKS											2688337
RGPT, Jais	10.00%	19631987	838794.00	0.00	20470781	11115420	1997420.38	0.00	0.00	13112840.41	7357941
AEI, Sivasagar	10.00%	479576	569349.00	0.00	1048925	271531	61226.17	0.00	0.00	332756.94	716168
EIB	10.00%	2843569	0.00	0.00	2843569	1609998	284356.87	0.00	0.00	1894354.90	949214

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ASSISTANT REGISTRAR (ACCOUNTS)

REGISTRAR

DIRECTOR

PRESIDENT (BOG)

Signed on: 20 JUL 2023

Contd

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)												
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS												
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH' 2023												
SCHEDULES - 6 - FIXED ASSETS												
DESCRIPTION	Rate of Depreciation	GROSS BLOCK				DEPRECIATION				NET BLOCK		
		COST AS AT BEGINNING OF THE YEAR	ADDITIONS DURING THE YEAR	DEDUCTIONS/ ADJ. DURING THE YEAR	COST/ AT THE YEAR-END	AS AT BEGINNING OF THE YEAR	DURING THE YEAR	Prior Period Adjustment	ON DEDUCTIONS/ ADJ. DURING THE YEAR	TOTAL UP TO THE YEAR-END	AS AT THE CURRENT YEAR-END	AS AT THE PREVIOUS YEAR-END
10. OTHER FINED ASSETS												
RGIPT, Jais	7.50%	19843198	228578.00	0.00	20071776	3639944	1491241.30	0.00	0.00	5131185.40	14940391	16203254
AEI, Sivassagar	7.50%	156409	48993.00		205402	70446	12254.16	0.00	0.00	82700.46	122702	85963
11. HOSTEL EQUIPMENTS- RGIPT, Jais	7.50%	4472238	23750.00	0.00	4495988	4166969	329018.11	0.00	0.00	4495987.02	1	305269
B. FIXED ASSETS - INTANGIBLE												
I. PATENT & COPYRIGHTS	11.11%	494836	0.00	0.00	494836	54976.28	54976.28	0.00	0.00	109952.56	384883	439860
2. SOFTWARE	40.00%	371401	5703987.00	0.00	6075388	51690.85	1406087.93	0.00	0.00	1457778.79	4617609	319710
TOTAL OF CURRENT YEAR		4874009937	631723980	19303709	5486430209	1047469469	182031681.26	52497550.89	1461000.00	1280537701	4205892508	3826540469
PREVIOUS YEAR		4666089914	208023837	103814	4874009937	843709697	153928607	49831165	-	1047469469	3826540469	3822380217

Assistant Registrar (Accounts)

Registrar

Director

President (BOG)

Signed on: 20 JUL 2023

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)												
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS												
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH' 2023												
SCHEDULES - 6 - FIXED ASSETS												
DESCRIPTION	Rate of Depreciation	GROSS BLOCK				DEPRECIATION				AMOUNT (₹)		
		COST AS AT BEGINNING OF THE YEAR	ADDITIONS DURING THE YEAR	DEDUCTIONS/ ADD. DURING THE YEAR	COST/ AT THE YEAR-END	AS AT BEGINNING OF THE YEAR	DURING THE YEAR	Prior Period Adjustment	ON DEDUCTIONS/ ADD. DURING THE YEAR	TOTAL UP TO THE YEAR-END	AS AT THE CURRENT YEAR-END	AS AT THE PREVIOUS YEAR-END
CAPITAL WORK - IN - PROGRESS												
A- RGIPT, JAIS PROJECT-												
a) Amenities- Faculty & Staff		389350	58557	0.00	447907	0.00	0.00	0.00	0.00	0.00	447907	389350
b) Fixed Assets		106923432.05	13559204	30907364	89575272	0.00	0.00	0.00	0.00	0.00	89575271.98	106923432.05
c) Lab Equipment		1923196	8201912	9020912	1104196	0.00	0.00	0.00	0.00	0.00	1104196	1923196
d) Building under Construction		69704626	252788886.00	0.00	322493512	0.00	0.00	0.00	0.00	0.00	322493512	69704626
e) Swami Vivekanand Statue		885000	0.00	0.00	885000	0.00	0.00	0.00	0.00	0.00	885000	885000
TOTAL - A		179825604	274688560	39928277	414595887	0.00	0.00	0.00	0.00	0.00	414595887	179825604
B- AEL SIVASAGAR PROJECT												
a) Project Management Expenses		26894241	0.00	0.00	26894241	0.00	0.00		0.00	0.00	26894241	26894241
b) Project Management Fees		25016040	0.00	0.00	25016040	0.00	0.00	0.00	0.00	0.00	25016040	25016040
c) Civil Work In-Progress		258318636	322452032	116941841.00	463828827	0.00	0.00	0.00	0.00	0.00	463828827	258318636
d) Lab Equipment		3966690	0	0.00	3966690	0.00	0.00	0.00	0.00	0.00	3966690	3966690
e) Secured Advance Against Material		0	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0	0
TOTAL - B		314195607	322452032	116941841.00	519705798	0.00	0.00	0.00	0.00	0.00	519705798	314195607
Contd. ...												
Assistant Registrar (Accounts)						Registrar			Director			
ph						Dendra			A.C			
									S.S.R			
									PRESIDENT (BOG)			

Contd.

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)												
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS												
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH' 2023												
SCHEDULES - 6 - FIXED ASSETS												
DESCRIPTION	Rate of Depreciation	GROSS BLOCK				DEPRECIATION				NET BLOCK		
		COST AS AT BEGINNING OF THE YEAR	ADDITIONS DURING THE YEAR	DEDUCTIONS/ ADL DURING THE YEAR	COST/ AT THE YEAR-END	AS AT BEGINNING OF THE YEAR	DURING THE YEAR	Prior Period Adjustment	ON DEDUCTIONS/ ADL DURING THE YEAR	TOTAL UP TO THE YEAR-END	AS AT THE CURRENT YEAR-END	AS AT THE PREVIOUS YEAR-END
C - EIB PROJECT												
a) Building under Construction		35017880	107725599	0.00	142743479	0.00	0.00	0.00	0.00	0.00	142743479	35017880
b) Project Management Expenses		10353196	0.00	0.00	10353196	0.00	0.00	0.00	0.00	0.00	10353196	10353196
TOTAL - C		45371076	107725599	0.00	153096675	0.00	0.00	0.00	0.00	0.00	153096675	45371076
TOTAL CWIP (A+B+C+D)		539392286	704786191	156870118	1087308359	0	0	0	0	0	1087308359	539392286
GRAND TOTAL		5413402223	1336510171	176173827	657378568	1047469469	182031681	52497551	1461000	1289537701	5293200867	4365932755
PREVIOUS YEAR GRAND TOTAL		5217549670	344970167	149117613	5413402223	843709697	153928607	49831165	-	1047469469	4365932755	4373839973

ASSISTANT REGISTRAR (ACCOUNTS)

RM

Pradip

Director

PRESIDENT (BOG)

Signed on: 20 JUL 2023

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)			
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS			
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH' 2023			
SCHEDULE - 7- INVESTMENTS - EARMARKED/ ENDOWMENT FUND	AMOUNT(₹)		PREVIOUS YEAR
	CURRENT YEAR		
1. In Government Securities	-		-
2. Other Approved Securities	-		-
3. Shares	-		-
4. Debentures and Bonds	-		-
5. Subsidiaries and Joint Ventures	-		-
6. Other Fixed Deposit	24,00,000.00		24,00,000.00
TOTAL	24,00,000.00		24,00,000.00

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)			
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS			
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH' 2023			
SCHEDULE - 8- INVESTMENTS - OTHERS	AMOUNT(₹)		PREVIOUS YEAR
	CURRENT YEAR		
1. In Government Securities (RBI Bonds - Not marketable)	-		-
2. Other Approved Securities	-		-
3. Shares	-		-
4. Debentures and Bonds	-		-
5. Subsidiaries and Joint Ventures	-		-
6. Others	29,03,512.00		42,54,571.00
Gratuity fund With LIC- AEI, Sivasagar	3,02,49,506.00		2,10,43,412.00
Gratuity fund With LIC- RGIPT, Jais	13,26,382.00		12,92,645.00
Gratuity fund With LIC- EIB	21,65,583.00		21,00,104.00
Leave Incashment Fund With LIC- AEI, Sivasagar	10,33,889.00		11,76,817.00
Leave Incashment Fund With LIC- EIB	5,07,40,206.00		3,08,45,760.00
Leave Incashment Fund With LIC- RGIPT, Jais	8,84,19,078.00		6,07,13,309.00
TOTAL	8,84,19,078.00		6,07,13,309.00
ASSISTANT REGISTRAR (ACCOUNTS)	REGISTRAR	DIRECTOR	PRESIDENT (BOG)

Signed on: 20 JUL 2023

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)			
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS			
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH' 2023			
SCHEDULE - 9 - CURRENT ASSETS, LOANS & ADVANCES	CURRENT YEAR	PREVIOUS YEAR	AMOUNT(₹)
A. CURRENT ASSETS :			
1. Inventories			
a) Stores and Spares (Stationery Items)	3,75,273.00	3,63,673.00	
b) Stock of Lab Consumables	2,07,406.00	1,48,073.00	
c) Stock of Civil and Electrical Materials	15,13,583.00	26,58,468.00	
d) Stock of Computer/ IT Consumables	16,500.00	31,676.00	
e) Stock of Diesel	5,19,775.00	3,99,362.00	
f) Stock of Office Consumables	-	29,671.00	36,30,923.00
2. Sundry Debtors			
a) Debts Outstanding for a period exceeding six months	2,89,100.00	2,89,100.00	
b) PRS recoverable from NCCL-Outstanding for a period exceeding Six Months	-	15,30,87,877.00	
c) Other Debts (Receivable against Workshop/ Training Programme)	1,24,53,120.37	2,10,91,357.99	17,44,68,334.99
3. Cash Balances in Hand (including Cheques/Drafts & imprest)			
a) With Scheduled Bank :			
i) On Current Accounts	5,74,68,745.53	35,12,467.02	
ii) On Deposit Accounts	8,35,93,01,464.00	6,84,99,53,022.00	
iii) On Savings Accounts	1,12,25,18,792.32	4,06,44,81,443.78	10,91,79,46,932.80
b) With Non - Scheduled Bank :			
TOTAL (A)	9,55,46,69,799.22		11,09,60,46,190.79

Contd ...

PRESIDENT (BOG)

DIRECTOR

REGISTRAR

ASSISTANT REGISTRAR (ACCOUNTS)

Signed on: 20 JUL 2023

Contd

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)			
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS			
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH' 2023			
		AMOUNT(₹)	
SCHEDULE - 9 -CURRENT ASSETS, LOANS & ADVANCES	CURRENT YEAR	PREVIOUS YEAR	
B. LOANS , ADVANCES AND OTHER ASSETS :			
1. Advances:			
a) Staff- Advance for Activities	-	4,05,396.00	4,05,396.00
b) Advances to Staff	2,53,001.00		
2. Advances and other amounts recoverable in cash or in kind or for value to be received:			
a) On Capital Account	60,59,87,421.00	39,11,91,329.00	
b) Pre-payments	46,21,495.02	49,91,937.00	
c) Security Deposits Paid	49,11,882.00	49,07,083.00	
d) Others	7,50,35,431.47	8,60,85,425.45	48,71,75,774.45
3. Income Accrued:			
a) On Investments from Earmarked/Endowment Funds	-	-	
b) On Investments-Others	10,21,70,183.00	9,85,89,675.00	
c) On Loans and Advances	-	-	
d) Others - Student Fees Due	2,84,77,986.28	2,40,87,692.00	12,26,77,367.00
4. Claims Receivable:			-
TOTAL (B)		82,14,57,399.77	61,02,58,537.45
TOTAL (A+B)		10,37,61,27,198.99	11,70,63,04,728.24
ASSISTANT REGISTRAR (ACCOUNTS)	REGISTRAR	DIRECTOR	PRESIDENT (BOG)

Signed on 20 JUL 2023

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)			
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS			
SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31ST MARCH' 2023			
AMOUNT (₹)			
SCHEDULE - 10 - FEES/ SUBSCRIPTIONS	CURRENT YEAR		PREVIOUS YEAR
1. Entrance Fees		17,58,054.00	11,56,674.00
2. Annual Fees/ Subscription		20,89,86,925.85	16,37,68,343.26
TOTAL		21,07,44,979.85	16,49,25,017.26
 Assistant REGISTRAR (ACCOUNTS) REGISTRAR DIRECTOR PRESIDENT (BOG)			

Signed on: 20 JUL 2023

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)			
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS			
SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31ST MARCH' 2023			
		AMOUNT (₹)	
SCHEDULE - 11 - INTEREST EARNED		CURRENT YEAR	PREVIOUS YEAR
1) On Term Deposits:			
a) With Scheduled Banks		40,88,37,453.00	37,20,15,528.00
b) With Non-Scheduled Banks		0.00	0.00
c) With Institutions (Govt. of India Bond)		0.00	0.00
d) Others		2,83,608.00	2,83,608.00
2) On Savings Accounts:			
a) With Scheduled Banks		5,63,38,625.00	2,77,81,059.49
b) With Scheduled Banks in Sweep A/c		1,26,98,700.00	2,32,51,120.00
c) With Non-Scheduled Banks		0.00	0.00
d) With Institutions		0.00	0.00
e) Others		0.00	0.00
		6,90,37,325.00	5,10,32,179.49
Less : Transfer to Capital Fund		47,81,58,386.00	42,33,31,315.49
a) Capital Fund RGPT, Jais		1,36,84,962.00	1,77,04,829.00
b) Capital Fund AEL Sivasagar		5,12,31,126.00	1,44,68,876.00
c) Capital Fund (Grant OIBB)		0.00	30,60,670.00
d) Capital Fund EIB, Bangalore		5,24,23,192.00	0.00
e) Depreciation Fund		0.00	0.00
f) Interest on Bank Guarantee Invoked- NCCL		0.00	76,07,099.00
g) Earmarked Fund - Chevron Scholarship Grant		1,34,055.00	1,43,998.00
h) Deferred Credit Liabilities - DST Grants		27,47,572.00	7,35,266.00
		12,02,20,907.00	4,37,20,738.00
3) On Loans:		35,79,37,479.00	37,96,10,577.49
a) Employees/ Staff		0.00	0.00
b) Others- Interest on IT Refund		3,76,038.00	0.00
4) Interest on Debtors and Other Receivables		0.00	0.00
		35,83,13,517.00	37,96,10,577.49
TOTAL			
ASSISTANT REGISTRAR (ACCOUNTS)	Ph	DIRECTOR	PRESIDENT (BOG)
REGISTRAR	pendry		

Signed on: 20 JUL 2023

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)			
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS			
SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31ST MARCH' 2023			
AMOUNT (₹)			
SCHEDULE - 12 - OTHER INCOME	CURRENT YEAR	PREVIOUS YEAR	
1. Profit on Sale/Disposal of Assets:			
a) Owned Assets	0.00	0.00	0.00
b) Assets acquired out of grants or received free of cost	0.00	0.00	0.00
2. Export Incentives realised			
3. Fees for Miscellaneous Services:			
Recovery of Transport/ Vehicles running charges			
Income From Vehicles			
Recovery of Transport Charges - Academic	6,22,850.00		
Recovery of Transport Charges - Non-Academic	2,57,388.00		
Recovery of Electricity charges RGIPT Jais			
Recovery of Electricity Charges- Ph.D. Students	35,974.71		
Recovery of Electricity Charges- Faculty	11,34,873.46		
Recovery of Electricity Charges- Non-Faculty	6,73,831.69		
Recovery of Electricity Charges- Bank of Baroda	84,564.70		
Recovery of Electricity Charges- Washermen	2,000.00		
Recovery of Electricity Charges- Post Office	4,023.00		
Recovery of Electricity Charges- M/s S.R. Enterprises	6,711.00		
Recovery of Electricity Charges- M/s Jaiswal Canteen	6,62,473.00	26,04,451.56	
Recovery of Medical Contribution			
Recovery of Medical Contribution (Faculty- RGIPT, Jais)	3,04,155.00		
Recovery of Medical Contribution (Staff- RGIPT, Jais)	1,18,476.00		
Recovery of Medical Contribution Faculty (AEI, Sivasagar)	87,750.00		
Recovery of Medical Contribution (Staff- AEI, Sivasagar)	19,845.00		
Recovery of Medical Contribution (EIB)	24,960.00	5,55,186.00	
			Contd ...
ASSISTANT REGISTRAR (ACCOUNTS)	REGISTRAR	DIRECTOR	PRESIDENT (BOG)

Signed on: 20 JUL 2023

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FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)			
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS			
SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31ST MARCH 2023			
SCHEDULE - 12 - OTHER INCOME	CURRENT YEAR	PREVIOUS YEAR	AMOUNT (₹)
Recovery of License Fee/Rent			
Recovery of License Fee (Faculty- RGIPT, Jais)	13,50,122.00		
Recovery of License Fee (Staff- RGIPT, Jais)	6,71,926.00		
Recovery of License Fee- Ph.D Students	1,56,190.00		
Recovery of License Fee- M/s S.R. Enterprises	14,970.00		
Recovery of License Fee- M/s Jaiswal Canteen	1,35,867.00		
Recovery of Hostel Rent	25,300.00		
Rent from Bank of Baroda, Jais Campus Branch	45,240.00	23,99,615.00	
		44,72,784.86	44,72,784.86
4. Miscellaneous Income			
Excess Provision for ITI Rent written Back	10,86,867.00		
Excess Provision for Equipment written Back	86,306.22		
Excess Provision for CAG Fees written Back	1,50,000.00		
Excess Provision for Arbitration fees written Back	15,25,000.00		
Excess Provision for PMC Fees written Back	88,24,239.00		
Excess Provision for Communication Networking Written Back	57,72,070.73		
Guest House Income	22,96,071.00		
Admission Processing Fee	31,53,100.00		
Fees from Commercial Training	34,42,095.00		
Convocation Fees- AEI, Sivasagar	6,000.00		
Convocation Fees- RGIPT, Jais	1,75,500.00		
ASSISTANT REGISTRAR (ACCOUNTS)	REGISTRAR	DIRECTOR	PRESIDENT (BOG)

Contd. ...

Signed on: 20 JUL 2023

Contd.

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)				
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS				
SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31ST MARCH' 2023				
SCHEDULE - 12 - OTHER INCOME		CURRENT YEAR		PREVIOUS YEAR
		AMOUNT (₹)		
Tender Fees- RG IPT, Jais Sample Analysis Charges Tuition Fees For Extra Classes Other Recovery from Students Profit on Sale of Bus Income from Grant Overhead Professional Fee for Consultancy Other Recovery Through Salary Liquidated Damages/ Penalties Misc. Receipt from Student- EIB Faculty Development Program RTI Fees Bonafide, Transcript & Migration Fees- RG IPT Jais Bonafide, Transcript & Migration Fees- AEI, Sivasagar		62,080.00		
		27,500.00		
		1,00,000.00		
		80,850.00		
		3,66,980.00		
		3,32,472.00		
		45,000.00		
		17,711.00		
		17,79,723.00		
		8,364.00		
		8,900.00		
		180.00		
		2,06,050.76		2,16,29,634.28
		9,232.20	2,95,62,291.91	3,42,040.00
TOTAL			3,62,50,049.47	2,64,44,459.14
ASSISTANT REGISTRAR (ACCOUNTS)				
REGISTRAR				
DIRECTOR				
PRESIDENT (BOG)				



Signed on 20 JUL 2023

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)		
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS		
SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31ST MARCH' 2023		
	AMOUNT (₹)	
SCHEDULE - 13 - ACADEMIC EXPENSES	CURRENT YEAR	PREVIOUS YEAR
Honorarium to Visiting Faculties	10,80,000.00	12,23,999.00
Book Grant, e-Journal Charges, Magazines & Academic Softwares	87,71,252.00	88,64,356.37
Convocation, Conference & Meeting Expenses	28,30,955.00	11,68,199.00
IIT-JEE Fees	14,16,000.00	14,16,000.00
Student Welfare	12,37,413.00	2,34,800.00
Hostel Rent & Mess Expenses	1,09,09,331.00	1,59,49,440.00
Scholarship & Stipend	4,80,78,504.00	3,85,90,857.00
Workshop & Training	27,83,840.00	13,54,736.00
Cultural & Sports Activities	3,38,816.00	89,737.00
Rent & Electricity Charges	87,97,661.00	64,52,730.00
Repairs & Maintenance (Equipment)	53,55,297.00	30,30,709.00
Vehicle Running Expenses	28,23,192.00	13,74,234.00
Lab Charges and Printing & Stationery	25,77,920.45	18,44,156.10
Travelling & Conveyance Expenses (Academic)	22,09,327.00	3,20,381.00
Student Contingency/ Admission/ Orientation Expenses	16,46,960.00	7,36,831.00
Cumulative Professional Development Allowance	29,37,971.00	11,30,024.00
Placement Exp.	1,37,647.00	-
Convocation Expenses Assam	6,62,392.00	8,96,659.00
Academic Software Charges- Bangalore	-	1,83,750.00
Bus Hire Charges -Assam	8,07,749.40	2,51,252.00
Seed Grant	20,96,853.00	12,15,413.08
Generator Running Exp -Assam	-	2,39,937.80
Lab Consumables - Bangalore	66,436.00	2,79,736.00
Mess Charges- Assam	32,63,645.00	13,60,162.00
Refill- NMIT Campus	4,79,400.00	15,10,400.00
Student Fest	19,627.00	27,351.00
SCTE Fee- AEI, Sivasagar	80,000.00	-
In-house Project Fund	0.00	2,28,579.00
TOTAL	11,14,08,188.85	8,99,74,429.35
ASSISTANT REGISTRAR (ACCOUNTS)	DIRECTOR	PRESIDENT (BOG)
<i>Ph</i>	<i>Ms</i>	<i>SSA</i>
REGISTRAR	DIRECTOR	PRESIDENT (BOG)

Signed on: 20 JUL 2023

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)			
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS			
SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31ST MARCH' 2023			
		AMOUNT (₹)	
SCHEDULE - 14 - ESTABLISHMENT EXPENSES	CURRENT YEAR	PREVIOUS YEAR	
a) Salaries & Allowances	21,52,92,553.00	17,34,01,158.00	
b) Manpower Hiring	5,02,67,350.00	4,14,73,380.00	
c) Contribution to Provident Fund, NPS & Others	2,67,60,796.00	2,16,20,139.00	
d) Contribution to Other Fund	-	-	
e) Provision on Employees Retirement and Terminal Benefits (Gratuity & Leave Encashment)	1,64,43,530.00	2,14,07,225.00	
f) Others			
Honorarium/ Compensation	19,11,564.00	11,96,236.00	
Medical Reimbursement	29,85,138.00	31,51,351.00	
Newspaper/ Mobile Expenses Reimbursement	4,55,216.00	3,12,614.00	
Staff Welfare Expenses	8,01,000.00	1,76,525.00	
Relocation Expenses	4,15,517.00	5,97,044.00	
TOTAL	31,53,32,664.00	26,33,35,672.00	
ASSISTANT REGISTRAR (ACCOUNTS)	REGISTRAR	DIRECTOR	PRESIDENT (BOG)

Signed on: 20 JUL 2023

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)			
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS			
SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31ST MARCH' 2023			
	AMOUNT (₹)		
SCHEDULE - 15 - OTHER ADMINISTRATIVE EXPENSES	CURRENT YEAR	PREVIOUS YEAR	
Electricity and Power	3,06,38,287.00	2,69,35,727.00	
Repairs & Maintenance (Building & Other)	45,54,111.00	63,67,518.63	
Insurance	3,82,339.00	2,98,418.00	
Repairs and Maintenance (House Keeping & Office Expenses)	1,35,37,172.00	1,24,62,696.11	
Security Service Charges	1,41,24,329.00	1,34,04,378.00	
Rent, Rates and Taxes	29,500.00	22,10,523.00	
Vehicles Running and Maintenance	22,10,138.00	19,46,442.14	
Postage, Telephone and Communication Charges	9,22,150.00	9,08,517.00	
Printing, Stationary and Publication	17,46,133.00	10,64,624.58	
Travelling and Conveyance Expenses	33,03,359.00	26,27,582.00	
Recruitment Expenses	10,274.00	2,43,851.00	
Legal & Arbitration Expenses	14,25,679.00	21,17,051.00	
Interest on Late Payment & Penalties	24,526.00	1,712.00	
Conference & Meetings Expenses	10,77,654.00	1,24,440.00	
Professional & Consultancy Charges	22,95,651.00	3,92,284.00	
Advertisement and Publicity	63,09,755.00	35,52,633.00	
Guest House Expenses	20,32,253.00	15,88,009.00	
Bank Charges	1,66,235.25	2,22,625.47	
Website Expenses	2,08,860.00	12,576.00	
CAG Audit Fees	5,50,000.00	3,68,660.00	
Doctor Fees	21,46,200.00	17,60,733.00	
Recruitment & Promotion Policies Expenses	0.00	1,04,862.00	
Contd			
ASSISTANT REGISTRAR (ACCOUNTS)	REGISTRAR	DIRECTOR	PRESIDENT (BOG)

Signed on 20 JUL 2023

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FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)		
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS		
SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31ST MARCH 2023		
	AMOUNT (₹)	
SCHEDULE - 15 - OTHER ADMINISTRATIVE EXPENSES	CURRENT YEAR	PREVIOUS YEAR
Administrative Expenses- AEI	-	50,00,000.00
Administrative Expenses- EIB	-	50,00,000.00
Field & Industrial Visit	-	59,788.00
Honorarium- EIB	4,00,000.00	20,000.00
Miscellaneous Office Expenses	8,46,879.00	10,20,130.75
PAT Counselling Expenses	-	1,00,000.00
Rent EIB (Office)	11,25,000.00	5,04,364.00
Software Renewal & License Fee	1,32,281.00	4,32,507.00
Sundry Balance Written-off	220.00	60.00
Hindi Rajbhasha Parliamentary Meeting/ Hindi Workshop Expenses	-	4,91,918.00
Medicine Expenses (Dispensary)	5,14,332.00	-
TOTAL	9,07,13,317.25	9,13,44,630.68
ASSISTANT REGISTRAR (ACCOUNTS)	REGISTRAR	PRESIDENT (BOG)
<i>Rh</i>	<i>Spdrg</i>	<i>Am</i>

Signed on: 20 JUL 2023

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)			
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS			
SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31ST MARCH' 2023			
SCHEDULE - 16 - PRIOR PERIOD ADJUSTMENT	CURRENT YEAR	PREVIOUS YEAR	AMOUNT (₹)
INCOME			
Rent & Electricity	25,673.00	1,12,622.89	
TDS Written Back	90,372.00	6,92,078.00	
Lab Equipments - RGIPT, Jais	-	1,82,658.58	
Interest Income on FDRs	9,16,541.00	-	
Security Deposits	1,42,596.00	-	
Capital Fund Adjustment (Depreciation- RGIPT, Jais)	4,95,18,656.29		
Capital Fund Adjustment (Depreciation- AEI, Sivasagar)	2,52,412.60		
Capital Fund Adjustment (Depreciation- EIB)	60,095.80		
Manpower Hire Charges- EIB	8,29,393.00		
Liabilities for Unpaid Bills	50,105.00	2,53,195.27	
Capital Fund Adjustment (Depreciation- RGIPT, Jais)- Building	4,80,96,796.71		
Capital Fund Adjustment- Building AEI	44,00,754.00		
Others	21,248.20	10,44,04,643.60	12,40,554.74
EXPENDITURE			
Travelling/ LTC Expenses	-	76,846.00	
Fee & Subscriptions	4,36,600.00	1,20,000.00	
Interest Accrued	1,02,000.00	42,18,131.00	
Liquidated Damages	-	1,99,258.00	
Security Deposit	-	19,705.00	
Mess Fees	3,02,300.00	0.00	
Investment in SWEEP	-	76,50,257.11	
Lab Consumables	1,54,350.00	0.00	
Hostel Rent	1,65,000.00	0.00	
NPS Contribution	5,08,183.00	0.00	
Provision for Depreciation- Building RGIPT, Jais	4,80,96,796.71	4,98,31,164.69	
Provision for Depreciation- Building AEI, Sivasagar	44,00,754.00	0.00	
Imprest- RGIPT, Jais	-	8,882.00	
Others	2,00,436.69	3,05,211.00	6,24,29,454.80
NET PRIOR PERIOD EXPENDITURE	5,43,66,420.40	5,00,38,223.20	(6,11,88,900.06)
ASSISTANT REGISTRAR (ACCOUNTS)	DIRECTOR	PRESIDENT (BOG)	
<i>Ph</i>	<i>A</i>	<i>SS</i>	

Signed on: 0 JUL 2023

SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH 2023

SCHEDULE '17'-SIGNIFICANT ACCOUNTING POLICIES

1. Accounting Convention

The financial statements are prepared under dual entry system under the historic cost convention and on-going concern concept, following the accrual method of accounting unless otherwise stated herein.

2. Inventory Valuation

Stores materials including stationery held at year end are valued at cost adopting FIFO method.

3. Fixed Assets

3.1 Fixed assets are stated at the cost of acquisition less accumulated depreciation thereon and impairment loss, if any. The cost includes inward freight, duties and taxes, installation charges and other directly attributable expenses related to their acquisition.

3.2 Assets created out of research grants normally remain as property of the sponsoring authority in terms of sanction letters.

3.3 Land includes acquisition cost, registration and other expenses and is capitalized on taking possession. Interim payments made on demand to Government Authorities for the purpose of acquisition of land are treated as Capital Advance, grouped under Capital Work in Progress.

3.4 Capital Work-In-Progress: Expenses incurred towards building under construction / civil work in progress / equipment received but not installed/ capital advances against construction materials/ running bills payments during project construction stage towards contracts, consultancy services and project management / administrative expenses are grouped under Capital Work-In-Progress. Interest earned if any, on mobilization advance to contractor are adjusted from Capital Work-in-Progress.

3.5 The assets which are unserviceable, condemned or out of use are written off only after approval by the Competent Authority of the Institute.



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ASSISTANT REGISTRAR (ACCOUNTS)

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REGISTRAR

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DIRECTOR

[Signature]
PRESIDENT-BOG

Signed on: 20 JUL 2023

SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31st MARCH 2023

SCHEDULE '17'-SIGNIFICANT ACCOUNTING POLICIES

4. Method of Depreciation on Fixed Assets

- 4.1 Depreciation on fixed assets is provided on Straight Line Method (SLM) on pro-rata basis at the rates arrived at based on the estimated useful life of the assets. In respect of assets fully depreciated and are in use, a residual value of Rs. 1.00 is retained in the books till it is discarded.
- 4.2 Each Fixed asset costing Rs. 5000/- and below is fully depreciated in the year of acquisition.
- 4.3 On the recommendation of Finance Committee, BoG in 68th meeting resolved to revise the useful life and rate of depreciation of fixed assets (Tangible and Intangible) with effect from Financial Year 2021-22. The approved useful life of asset and rates of depreciation are as follows:

I. Useful Life and Rate of Depreciation on Fixed (Tangible) Assets

SL No.	Tangible Assets	Useful Life (In years)	Rate of Depreciation (In %)
1	Land	-	0
2	Site Development	-	0
3	Buildings	50.00	2.00
4	Roads & Bridges	50.00	2.00
5	Tube wells & Water Supply	50.00	2.00
6	Sewerage & Drainage	50.00	2.00
7	Electrical Installation and Equipment	20.00	5.00
8	Plant & Machinery	20.00	5.00
9	Scientific & Laboratory Equipment	12.50	8.00
10	Office Equipment	13.33	7.50
11	Audio-Visual Equipment	13.33	7.50
12	Computers & Peripherals	05.00	20.00
13	Furniture, Fixtures & Fittings	13.33	7.50
14	Vehicles	10.00	10.00
15	Library Books & Scientific Journals	10.00	10.00

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ASSISTANT REGISTRAR (ACCOUNTS)

pendra

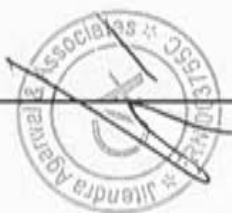
REGISTRAR

Amo

DIRECTOR

[Signature]
PRESIDENT-BOG

Signed on: 20 JUL 2023



SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH 2023
SCHEDULE '17'-SIGNIFICANT ACCOUNTING POLICIES

II. Amortization Period and Amortization Rate on Intangible Assets			
Sl. No.	Intangible Assets	Amortization Period (In years)	Amortization Rate
1	E-Journals	02.50	40.00
2	Computer Software	02.50	40.00
3	Patents and Copyrights	09.00	11.11

5. Merging of Contingent Fund with Institute's Reserve Fund

A Depreciation Fund was initially created by transferring equivalent amount of depreciation subject to excess of income over expenditure from Income & Expenditure Account, to facilitate suitable funding for the replacement of assets. BoG in its 62nd meeting resolved to rename the Depreciation Fund as Contingent Fund. The Board of Governors (BoG) further deliberated on the matter in its 68th meeting and resolved the following:

- The fund shall be called **RESERVE FUND** of the Institute. General Reserve shall be known as Reserve Fund.
- The amount of Contingent Fund being merged with Reserve Fund shall be utilized only for capital works of the Institute.
- The Reserve Fund shall be used for capital works, however, in case of administrative exigencies, reserve fund may be utilized for recurring expenses with the approval of BoG.
- The excess of income over expenditure of each financial year shall be transferred to **RESERVE FUND** of the Institute.

6. Miscellaneous Expenditure

6.1 All expenses relating to renovation of rented premises including playgrounds/ courts are accounted in Income & Expenditure Account in the year of incurrence.

6.2 Deferred revenue expenditure on account of RGIPB Brand or intangible (E-Journals, Computer Software and Patent & Copyrights) assets shall be written off as per Amortization Policy of Institute.

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ASSISTANT REGISTRAR (ACCOUNTS)

Dendra

REGISTRAR

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DIRECTOR

[Signature]
PRESIDENT-BOG

Signed on: 2.0 JUL 2023

SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH 2023

SCHEDULE '17'-SIGNIFICANT ACCOUNTING POLICIES

7. Accounting Policy on Lease as per Accounting Standard-19

On the recommendation of Finance Committee, BoG in its 68th meeting considered the Accounting Policy on Lease as per Accounting Standard-19 to implement it with effect from Financial Year 2021-22. The approved policy is as follows:

Operating Leases (As per Para-23 of Accounting Standard- 19)

Para-23 of AS-19: The Lease payment under an operating lease shall be recognized as an expense in the statement of Income & Expenditure on a Straight-Line Basis.

Para-24 of AS-19: For operating lease, lease payments (excluding costs for services such as insurance and maintenance) shall be recognized as an expense in the statement of Income & Expenditure on a Straight-Line Basis.

Para-25 of AS-19: The lease shall be disclosed as under:

(a) Future minimum lease payments for the Operating Lease for the following periods:

- (i) not later than one year,
- (ii) later than one year and not later than five years,
- (iii) later than five years.

8. Capital Fund Grant

8.1 Budgetary Support from Government of India and Grant from OADB / Promoting entities for campus project work are accounted on receipt basis and grouped under "Capital Fund." Interest earned if any, from bank on capital fund account/ investment is accounted in Capital Fund account.

8.2 Depreciation charged on assets created out of Capital fund are treated as Deferred Income and transferred to Income and Expenditure Account every year on systematic basis over useful life of the assets.

8.3 The fund utilised for creating non-depreciable assets like land is treated as Capital Reserve.



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ASSISTANT REGISTRAR (ACCOUNTS)

Pendrg

REGISTRAR

A

DIRECTOR

[Signature]

PRESIDENT-BOG

Signed on: 20 JUL 2023

SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31st MARCH 2023 SCHEDULE '17'-SIGNIFICANT ACCOUNTING POLICIES	
9. <u>Corpus fund</u> 9.1 Corpus Fund received is accounted on receipt basis and is grouped under Corpus Fund. Interest earned from investment of Corpus Fund in Fixed Deposit Receipts (FDRs) with banks are utilised for meeting the recurring expenses. 9.2 Interest earned from investment of Corpus Fund is accounted in Income & Expenditure Account and the surplus interest after meeting the recurring expenses, as lying invested in Fixed Deposits Receipts (FDRs) with Banks/Non-tradable Government Securities.	
10. <u>Foreign Currency Transactions</u> 10.1 Transactions denominated in foreign currency are accounted at the exchange rate prevailing as at the date of such transactions.	
11. <u>Provisions, Prepaid</u> 11.1 All known liabilities and other financial obligation exceeding Rs.10,000/- up to the date of finalization of accounts are accounted for. 11.2 Pre-paid charges/expenses exceeding Rs. 10,000/- incurred during the year are carried to next year and are duly considered in relevant future period.	
12. <u>Investments</u> 12.1 Investments are held in the form of Fixed Deposits (FDs) with Scheduled Banks or in non-tradable Government Securities. 12.2 No Investments are made by the Institute in the tradable securities. 12.3 Investments are valued at cost.	
13. <u>Revenue Recognition</u> 13.1 Interest earned on Fixed Deposits with Banks, income from Government Securities, Students' Fees including entrance fees and other receipts are accounted for as and when due on accrual basis and are recognised as income of the Institute. Sale of discarded assets/items etc. is accounted for on receipt basis.	
ASSISTANT REGISTRAR (ACCOUNTS) 	REGISTRAR 
DIRECTOR 	PRESIDENT-BOG 

Signed on: 20 JUL 2023



SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH 2023 SCHEDULE '17'-SIGNIFICANT ACCOUNTING POLICIES		
14. Retirement Benefits 14.1 Liability of retirement benefits i.e. Gratuity and Leave Encashment are provided for on the basis of actuarial valuation. 14.2 Provisions for Gratuity and Leave Encashment are being made in books and capitalized value of Gratuity and Leave Encashment being received from previous employers of the Institute's employees, who have been absorbed in the Institution, is credited to the Provision Accounts. 14.3 Equivalent amount of provisions being made is transferred to respective Gratuity and Leave Encashment Funds of RGPT, Jais, Amethi, Assam Energy Institute (AEI), Sivasagar and Energy Institute, Bengaluru (EIB). 14.4 Investment made against these provisions are being shown as a part of "Investment Others" in a separate Schedule. 14.5 The actual payments of Gratuity and Leave Encashment are debited in the accounts to the respective provisions. 14.6 The Board of Governors (BoG) in its 66th meeting resolved on the recommendation of Finance Committee for the investment of 'Leave Encashment' and 'Gratuity Funds' in LIC's New Group Leave Encashment Plan and 'LIC's New Group Gratuity Cash Accumulation Plan' respectively for the employees of RGPT, Jais, Amethi, Assam Energy Institute (AEI), Sivasagar and Energy Institute, Bengaluru (EIB). 15. Income Tax 15.1 The Institute income is exempted from Income Tax under the provisions of Section 10(23C) (iii) (ab) of the Income Tax Act, 1961, hence, no provision is made for Income Tax.		
	ASSISTANT REGISTRAR (ACCOUNTS) 	REGISTRAR 
	DIRECTOR 	PRESIDENT-BOG 

Signed on 20 JUL 2023

SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH 2023 SCHEDULE '17'-SIGNIFICANT ACCOUNTING POLICIES	
16. Policy for Grant of Research Grant/ Seed Grant to Faculty Members The BoG in its 71st meeting passed the policy to grant Research Grant/ Seed Grant to Faculty Members of the Institute and its centres. The highlight of the policy is as under: Preamble: To provide financial support to young faculty members to carry out research works and establish research laboratory, which may further lead to fetch the extramural projects from industries and funding agencies. Research Grant: Providing assistance to outstanding collaborative research proposals received from faculty of Institute and centres with a objective to attract external fundings. Seed Grant: Providing one-time research financial support to the newly appointed faculty in the cadre of Assistant Professor of Institute and its centres. Funding: Interested faculty will be required to submit the research proposals to the office of Dean- R&D to get support under Seed Grant/Research Grant scheme. The projects shall be approved based on the recommendation of the Evaluation Committee. The fund shall be sanctioned from the "Recurring Grant" of the Institute for various project activities. The financial support under the Seed Grant scheme shall be generally up to Rs. 10.00 Lakhs and it may be extended further depending on the genuine need of the proposal/ recommendation of the committee. In the case of the Research Grant Scheme, as such there shall not be any financial limit, however, funding for the project shall be sanctioned on the recommendation of Internal Project Evaluation Committee. Approving Authority: The Director, RGIPT shall be approving authority for financial support under both the schemes. General Guidelines: The guidelines followed in the external funded projects shall be applicable in all the projects sanctioned under the Research Grant/ Seed Grant schemes. Institutes' procurement rules shall be followed in the purchases of non-consumable and consumable items. A list of all non-consumable items procured out of Project Funds shall be handed over to the respective department after the closure of the project.	  ASSISTANT REGISTRAR (ACCOUNTS)  DIRECTOR  PRESIDENT-BOG

Signed on: 20 JUL 2023

SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH 2023

SCHEDULE '18'-NOTES ON ACCOUNTS

The Notes forming part of the Accounts giving inter-alia certain additional disclosures in respect of significant accounting transactions during the year and also highlighting the Institute's contingent liability and capital commitment as of 31st March 2023 are as follows:

1. The Receipt and Payment Account carries the amounts of actual receipts and actual payments of the Institute during the year 2022-23. However, the recoveries under the various heads have been grossed up, e.g. salaries expenses have been grossed up on account of NPS, Income Tax Deductions, etc.
2. The Income & Expenditure Account and the Balance Sheet have been drawn from Receipt and Payment Account duly accounted for liabilities, prepaid expenses, advance payments and provisions as at the end of the accounting year.
3. The financial statements have been presented as per Uniform Format prescribed for non-profit Central Autonomous Bodies.
4. Previous year figures have been regrouped/rearranged in order to make them comparable with the current year figures.
5. While finalizing the Accounts for the year, necessary action has been taken, wherever applicable, to implement the recommendations of Government Audit on accounts of previous year.
6. In line with the recommended policy for non-profit organization in respect of accounting of Gross Budgetary Support (GBS) and Grants, the Institute has adopted the following significant accounting policy:

Budgetary Support received from Government of India and Grants received from OIDB/ promoting entities and Capital Fund (Own Contribution) for campus development are grouped under "Capital Fund" in Schedule-1 along with the interest and other amount earned if any. Amounts grouped under Corpus Fund in Schedule-1 represent contribution received from Oil PSUs for meeting the recurring expenses from its interest and the transfer of excess of income over expenditure to the extent of surplus interest lying invested in Fixed Deposit Receipts/ non-tradable Government Securities from the Income & Expenditure Account.



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ASSISTANT REGISTRAR (ACCOUNTS)

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REGISTRAR

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DIRECTOR

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PRESIDENT-BOG

Signed on: 0 JUL 2023

SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH 2023
SCHEDULE '18'-NOTES ON ACCOUNTS

- A Corpus Fund of Rs. 0.70 crore received from Oil India Ltd. during Financial Year 2022-23 for Assam Energy Institute (AEI), Sivasagar.
 - A Capital Fund of Rs. 3.83 crore received from Oil India Ltd. during Financial Year 2022-23 for Assam Energy Institute (AEI), Sivasagar 2022-23.
 - The BoG in its 70th meeting resolved to transfer an amount of Rs. 20.00 crore from Institute's Reserve Fund to Capital Fund (Own contribution) during FY 2022-23 for the settlement of payment to M/s NCCL.
 - Depreciation on assets created out of capital fund is treated as Deferred Revenue Income and recognized in the Income and Expenditure Account every year on systematic basis over the 'useful life' of the assets. Accordingly, Rs.18,20,31,681/- being the depreciation charged during the year has been transferred to Deferred Revenue Income.
 - As per the recommendation of Audit, cost of unfinished buildings of Rs. 68,29,66,517/-, which includes RGIT and its Assam Energy Institute (AEI), Sivasagar and Energy Institute, Bengaluru (EIB) centres as capital-works-in-progress in the year 2022-23.
7. The provisions of Payment of Gratuity Act are applicable to the Institute. Accordingly, based on Actuarial Valuation, accumulated provision for Rs. 8,84,19,078/- has been made in the accounts towards retirement benefit for (a) Gratuity and (b) Leave Encashment, which is reflected in accounts at **Schedule-5** under 'Current Liabilities and Provisions' as of 31-03-2023.

8. During the year, excess of income over expenditure to the extent of the surplus interest lying invested in fixed deposit with banks amounting to total of Rs. 13,78,92,599.42/- have been transferred to the Institute's Reserve Fund, which has been reflected under Reserve and Surplus in **Schedule-2**.

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ASSISTANT REGISTRAR (ACCOUNTS)

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REGISTRAR

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DIRECTOR

[Signature]

PRESIDENT-BOG

Signed on: 20 JUL 2023

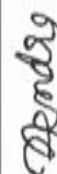
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH 2023

SCHEDULE '18'-NOTES ON ACCOUNTS

9. As per the EFC Sanction Ref. F.No. 42024/6/2012-Gen.(Vol. II) dated 16.03.2015 with regard to Revised Cost Estimate for Jais Project taken by Department of Expenditure (Ministry of Finance), it is decided that RGIPT will confine its Jais Campus project in 47.00 acres of land only, as the acquisition of additional land by UPSIDC did not materialize. Consequently to this, the institute had applied to UPSIDC in 2015-16 for refund of advance payment of Rs. 185.00 Lakh made during previous years as per their demand, for acquisition of land. Out of the above, Rs. 143.00 Lakh was realised during the year and the balance of Rs. 41.80 Lakh is grouped under Loans & Advances on capital account. According to UPSIDC, Rs. 41.80 Lakh is not payable since the amount is deducted against their standard deduction policy for land acquisition. RGIPT is following up with UPSIDC for refund on the grounds that the acquisition of land did not take place, hence, there is no deduction applicable. Meanwhile, provision for doubtful debt of Rs. 41.80 Lakh has been made in books from 2017-18 which is reflecting under Schedule-5(B), on the recommendation of Audit.
10. The contract for civil & structural work awarded in June 2010 to M/s Punj Lloyd Ltd for an estimated contract value of Rs. 179,89,04,329/- had been terminated in view of the contractor's failure to perform as per the agreed schedule. Prior to termination, contractor raised certain claims not payable under the contract and on Institute's refusal to pay the claimed amount, the contractor invoked arbitration which is currently on-going. Current Liabilities and Provisions includes Rs. 3,27,27,202/-, the unpaid balance amount against the value of work done by the contractor, (which is adjustable against the Institute's claim pending for adjudication under arbitration).
11. MoPNG in its meeting held on 14.02.2014 proposed to set up a centre of RGIPT in the area of Fire Engineering, Safety and Energy Research at Bangaluru. The foundation stone for this centre was laid at Kambalipura Village in Rural Bangaluru District, Karnataka by then Minister PNG on 05.03.2014. Meanwhile, a fund of Rs. 2000.00 lakh has been paid by OADB to RGIPT as an advance (vide letter No.4/15/2017-OADB dated 18.07.2017 for construction of compound wall and other miscellaneous project related expenses for setting up of Energy Institute, Bangaluru. A further fund of Rs. 3000.00 lakhs was also paid by OADB to RGIPT (vide letter No.J-25021/6/2017-Gen/CA dated 24.07.2018) to commence academic courses from temporary campus. Since the amount has been received as an advance, the same has been reflected under Schedule-5 under Current Liabilities.
12. The Board of Governors (BoG) in its 70th meeting, held on 10th December 2022 had resolved to dispose of the ongoing dispute with M/s NCC Ltd through out of court settlement and the payment of agreed amount of Rs. 66.00 crore. In pursuant to the resolution passed by the BoG, Rajiv Gandhi Institute of Petroleum Technology (RGIPT) signed a settlement agreement with M/s NCC Ltd on 24-01-2023 to pay them a full and final payment of Rs. 66.00 crore (Rupees Sixty-Six Crore).



ASSISTANT REGISTRAR (ACCOUNTS)



REGISTRAR



DIRECTOR



PRESIDENT-BOG

Signed on 20 JUL 2023



SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH 2023

SCHEDULE '18'-NOTES ON ACCOUNTS

The Institute made a payment to M/s NCC Ltd in two instalments. 85% of the total amount i.e. Rs. 53,39,01,773/- (Rupees Fifty-Three Crore Thirty-Nine Lakhs One Thousand and Seven Hundred Seventy-Three Only) was paid in 1st installment through Cheque No- 652701 (State Bank of India) dated 24-01-2023. The second and final payment of Rs. 9,42,17,960/- (Rupees Nine Crore Forty-Two Lakhs Seventeen Thousand Nine Hundred Sixty Only) was made on 13-03-2023 after withdrawal of Miscellaneous (Arbitration) Application No- 365 of 2021 from Commercial Court, Gautambudh Nagar.

All the relevant liabilities and provisions made against the settlement of M/s NCCL claims stands settled and closed during the Financial Year 2022-23.

13. Contingent Liabilities

- a) The following claims by the Contractors are under dispute for which Arbitration process has been invoked against the institute and the liability towards which as on 31.03.2023 is un-ascertainable:
Arbitration instituted by M/s Punj Lloyd on 26.08.2013 for Rs. 73,88,92,012/- plus interest @ 18% of Rs. 1,14,15,88,158/- accrued up to 31.03.2023 in respect of Civil and Structural Works of RGIPT Campus in Jais, against which RGIPT has filed counter claim on 29.01.2014 of Rs. 58,99,55,835/- plus interest @ 18% amounting to Rs. 86,72,35,077/- accrued up to 31.03.2023. The arbitration is under process.
- b) An arbitration award for arrear salary (approx. Rs. 4.24 lakhs plus interest) against a claim from an ex-employee is under litigation in the Court of Law and no liability has materialized as on 31.03.2023.

14. Capital Commitments

- a) RGIPT had received a sum of Rs. 121.75 Crore from GBS for procurement of equipment's and furniture at Jais during 2017-18. An amount of Rs. 121.75 crore has incurred as on 31.03.2023. A GBS of Rs. 121.75 Crore is being fully utilised during the year 2022-23. Institute has made capital commitment of Rs. 7.83 crore for the construction of Boys and Girls Hostel during the FY 2022-23.
- b) Construction of Academic Building and Hostels of Rs. 21.55 Crore on 150 acres of Land at Energy Institute, Bengaluru by M/s Nirmithi Kendra (Karnataka).
- c) Construction of Central Workshop, Hostel, Academic Building, and allied facilities of Rs 42.21 Crore at Assam Energy Institute, Sivasagar by CPWD, Guwahati.



ASSISTANT REGISTRAR (ACCOUNTS)	DIRECTOR	PRESIDENT-BOG

Signed on: 20 JUL 2023

SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH 2023
SCHEDULE '18'-NOTES ON ACCOUNTS

15. Immovable Asset/ Land

1. The Rajiv Gandhi Institute of Petroleum Technology (RGPT), Jais, Amethi had purchased a land measuring 18.167 Hectares (44.89 acres) at Village- Mubarakpur Mukhatia, Bahadurpur, Post- Harbanshgari, Tehsil- Tiloi, Jais, Amethi, Uttar Pradesh from M/s Indian Oil Tanking Ltd (A registered company incorporated under the Companies Act, 1956) vide Sale Deed dated 18th February 2008.
2. The Government of Assam had allotted a land measuring 100 acres at Village- Gohain Gaon, Dhari Ali Road, Akhoiphutia, Sivasagar- 785697, Assam to Rajiv Gandhi Institute of Petroleum Technology (RGPT) to establish its centre, namely- Assam Energy Institute (AEI), Sivasagar.
3. The Government of Karnataka has allotted a land on lease measuring 150 acres at Survey No- 127-P of Kambalipura Village, Soolibele Hobli, Hoskote Taluk, Bengaluru Rural District, Karnataka to establish its centre, namely- Energy Institute (EIB), Bengaluru. The lease of land is valid up to 22-03-2026.

The details of above-mentioned land are as follows:

Sl. No.	Particulars	Book Value as on 31.03.2023	Leasehold/ Freehold	Area of Land
1	Rajiv Gandhi Institute of Petroleum Technology (RGPT), Jais, Amethi, Uttar Pradesh	4,47,03,296.59	Freehold	18.167 Hectares (44.89 acres)
2	Assam Energy Institute (AEI), Sivasagar, Assam	60,97,535.00	Freehold	100 acres
3	Energy Institute (EIB), Bengaluru, Karnataka	150.00	Leasehold	150 acres

Accordingly, an amount of Rs. 5,08,00,831.59 has been shown as Capital Reserve under Schedule-2.

			
ASSISTANT REGISTRAR (ACCOUNTS)	REGISTRAR	DIRECTOR	PRESIDENT-BOG

Signed on: 20 JUL 2023



SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH 2023
SCHEDULE '18'-NOTES ON ACCOUNTS

16. Lease

The Institute has taken premises on lease (operating lease) at Sivasagar and Bengaluru for the purpose of Boys and Girls Hostels and for transit campus respectively. The details of premises taken on lease are as follows:

Sl. No.	Premises taken on Lease	Name of the Lessees	Lease Start Date	Monthly Rent	Lease Expiry
1	Boys Hostel-1, Sivasagar	Sibsagar Commerce College, Sivasagar	01.09.2017	40,000.00	31.05.2023
2	Boys Hostel-3, Sivasagar	Harunal Rashid	01.08.2018	55,000.00	31.03.2023
3	Boys Hostel-7, Sivasagar	Bitul Baruah	01.09.2019	30,000.00	31.07.2023
4	Girls Hostel-1, Sivasagar	Ruprekha Baruah	01.09.2019	60,000.00	31.07.2023
5	Girls Hostel-2, Sivasagar	PD Enterprises	01.09.2019	25,000.00	31.08.2022
6	New Boys Hostel-1, Sivasagar	Kabir Ahmed Bhuyan	01.03.2021	94400.00	31.07.2023
7	New Boys Hostel-2, Sivasagar	PD Enterprises	25.10.2021	75,000.00	24.11.2022
9	Transit campus of EIB, Bengaluru	Nitte Institute of Technology	01.08.2020	1,10,000.00	30.06.2022
10	Transit campus of EIB, Bengaluru	Sri Venkateshwara College of Engineering	01.07.2022	1,25,000.00	30.06.2024
11	Boys Hostel for MBA students	Rajiv Gandhi National Aviation University (RGNAU), Amethi	15.11.2022	1,60,000.00	14.11.2023
15	Girls Hostel-2, Sivasagar	PD Enterprises	01.09.2019	25,000.00	31.08.2022

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 PRESIDENT-BOG

Signed on: 20 JUL 2023

SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH 2023
SCHEDULE '18'-NOTES ON ACCOUNTS

Hiring out of Fixed Asset of Lease (GFR Rule No-212)

Sl. No.	Premises Given on Lease	Name of the Lessees	Lease Start Date	Monthly Rent	Lease Expiry
1	Space for Bank in Commercial Complex, RGIPT Jais, Amethi	Bank of Baroda	03-05-2017	3770/-	02-05-2027
2	Space for Post Office in Commercial Complex at RGIPT Jais, Amethi	India Post	---- Given free of cost due to Government of India agency.		
3	Space for Grocery Shop in Commercial Complex at RGIPT Jais, Amethi	M/s S. R. Enterprises, Rae Bareilly	26-02-2019	759/-	30-04-2024



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ASSISTANT REGISTRAR (ACCOUNTS)

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REGISTRAR

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DIRECTOR

[Signature]
PRESIDENT-BOG

Signed on: **20 JUL 2023**

Seperate Audit Report 2022–23



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**Rajiv Gandhi Institute of Petroleum Technology
Jais, Amethi, Uttar Pradesh**

No. DUA(E) Rep/01-168/ACB - RU/PT/2023-24/316



भारतीय लेखापरीक्षा और लेखा विभाग
कार्यालय महा निदेशक लेखापरीक्षा (ऊर्जा)
नई दिल्ली

INDIAN AUDIT & ACCOUNTS DEPARTMENT
Office of the Director General of Audit (Energy)
New Delhi



Dated: 23/11/2023

To,

The Secretary to the Government of India,
Ministry of Petroleum and Natural Gas,
Shastri Bhawan,
New Delhi -110001

Subject: Separate Audit Report on the Annual Accounts of Rajiv Gandhi Institute of Petroleum Technology for the year 2022-23.

Sir,

I am to forward herewith the Separate Audit Report on the Annual Accounts of Rajiv Gandhi Institute of Petroleum Technology for the year 2022-23 along with the Annual Accounts for the year 2022-23.

The Separate Audit Report and Annual Accounts may kindly be laid on the table of both the Houses of the Parliament.

Two copies of the document as presented to both the Houses of the Parliament may kindly be forwarded to this office with an intimation regarding the date(s) on which these are laid on table of both the Houses of the Parliament.

Encl: As above.

Yours faithfully,

(Sanjay K. Jha)
Director General

Separate Audit Report of the Comptroller & Auditor General of India on the Annual Accounts of Rajiv Gandhi Institute of Petroleum Technology for the year ended on 31 March 2023

We have audited the attached Balance Sheet of Rajiv Gandhi Institute of Petroleum Technology (RGIPT), Uttar Pradesh as at 31 March 2023 and the Income & Expenditure Account/Receipt & Payment Account for the year ended on that date under Section 19(2) of the Comptroller & Auditor General's (Duties, Powers & Conditions of Service) Act, 1971 read with Section 26 of the Rajiv Gandhi Institute of Petroleum Technology Act, 2007. These financial statements are the responsibility of RGIPT's Management. Our responsibility is to express an opinion on these financial statements based on our audit.

2. This Separate Audit Report contains the comments of the Comptroller & Auditor General of India (CAG) on the accounting treatment only with regard to classification, conformity with the best accounting practices, accounting standards and disclosure norms, etc. Audit observations on financial transactions with regard to compliance with the Law, Rules & Regulations (Propriety and Regularity) and efficiency-cum-performance aspects etc., if any, are reported through Inspection Reports/CAG's Audit Reports separately.
3. We have conducted our audit in accordance with auditing standards generally accepted in India. These standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatements. An audit includes examining, on a test basis, evidences supporting the amounts and disclosure in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of Financial Statements. We believe that our audit provides a reasonable basis for our opinion.
4. Based on our audit, we report that:
 - (i) We have obtained all the information and explanations, which to the best of our knowledge and belief were necessary for the purpose of our audit;
 - (ii) The Balance Sheet and Income & Expenditure Account/Receipt & Payment Account dealt with by this report have been drawn up in the format approved by the Government of India.
 - (iii) In our opinion, proper books of accounts and other relevant records have been maintained by RGIPT in so far as it appears from our examination of such books.
 - (iv) We further report that:

A. COMMENTS ON ACCOUNTS

1. Balance Sheet

1.1 Corpus/Capital Fund (Schedule 1): ₹13,77.28 crore

The above includes fund of ₹583.80 crore contributed by Oil Companies to RGIPT for creation of an Endowment Fund, interest income of which was to be utilised for meeting the recurring expenditure of the concerned projects (i.e., AEI Sivasagar and RGIPT JAS).

This has resulted in overstatement of 'Corpus/Capital Fund' (Schedule 1) and understatement of 'Earmarked/Endowment Fund' (Schedule 3), each by ₹583.80 crore.

1.2 Investment-Others (Schedule 8): ₹8.84 crore

The above includes an amount of ₹2.77 crore, paid by RGIPT in Life Insurance Corporation of India, towards investment of gratuity and leave encashment fund on 19-05-2023, i.e. after

closing of the financial year 2022-23 by way of creation of sundry creditors by equal amount. This has resulted in overstatement of both, 'Investments-Others' and 'Current Liabilities (Schedule 5)' by ₹2.77 crore each.

2. Income & Expenditure Account

2.1 Other Administrative Expenses (Schedule 15): ₹9.07 crore

The above does not include an amount of ₹17.09 crore, paid by RGIPT in full and final settlement to NCCL, towards interest payment in the dispute between them due to some contractual obligations. As per AS-10, 'Property Plant and Equipment', cost of an asset shall include any cost directly attributable to bringing the asset to the location and condition necessary for it to be capable of operating in the manner intended by the management. As the interest cost had arisen out of a dispute between the parties and was not directly attributable to bringing the asset to location and condition necessary for it to be capable of operating in the manner intended by the management, the same should have been charged as 'Other Administrative Expenses' under 'Income & Expenditure Account', rather than capitalizing under 'Fixed Assets' (Schedule 6).

This has resulted in understatement of 'Other Administrative Expenses' by ₹17.09 crore. Further, since RGIPT has charged depreciation of ₹2.87 crore on such incorrect capitalization of ₹17.09 crore under 'Deferred Revenue Income (Depreciation)', both, the 'Fixed Assets' and 'Deferred Revenue Income (Depreciation)' are overstated by ₹14.22 crore (i.e., ₹17.09 crore minus ₹2.87 crore) and ₹2.87 crore respectively.

3. General

3.1 Delay in submission of Annual Accounts.

As per the recommendations of the Committee on Papers Laid on the Table of the House (5th Lok Sabha) 1975-76 and Rule 237 of General Financial Rules, 2017, RGIPT was required to submit the Annual Accounts by 30th June each year for Certification Audit by the C&AG and the Annual Report was required to be laid before the Parliament by 31st December.

RGIPT, however, submitted its Annual Accounts for the year 2022-23 on 27 July 2023, i.e., after a delay of almost 27 days from the stipulated date.

For the year 2021-22, the Separate Audit Report was issued to RGIPT by this office on 22 February 2023 (within prescribed period for audit since submission of annual accounts by RGIPT on 26 October 2022). The annual report of RGIPT for the financial year 2021-22 is, however, yet to be laid before the Parliament.

B. Grants-in-aid

Out of the Grants-in-aid of ₹338.71 crore for capital assets (comprising unspent opening balance of ₹323.15 crore from previous year as given by Management, amount received during the year of ₹3.83 crore and interest earned ₹11.73 crore), RGIPT utilised a sum of ₹133.65 crore during the year leaving a balance of ₹205.06 crore as unutilized on 31 March 2023..

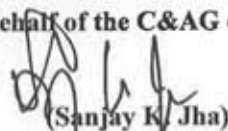
C. Management Letter

Deficiencies which have not been included in the Separate Audit Report would be brought to the notice of the Director, RGIPT, through a Management Letter issued separately for remedial/corrective action.

- v. Subject to our observations in the preceding paragraphs, we report that the Balance Sheet and Income & Expenditure Account/ Receipt & Payment account dealt with by this report are in agreement with the books of accounts.

- vi. In our opinion and to the best of our information and according to the explanations given to us, the said financial statements read together with the Accounting Policies and Notes on Accounts and subject to matters stated above and other matters mentioned in the Annexure-I to this Separate Audit Report, give a true and fair view in conformity with the accounting principles generally accepted in India
- (a) In so far as it relates to the Balance Sheet, of the state of affairs of RGIPT as at 31 March 2023 and
- (b) In so far as it relates to Income & Expenditure Account, of the excess of income over expenditure for the year ended on that date.

For and on behalf of the C&AG of India



(Sanjay K. Jha)

Director General of Audit (Energy)

Place: New Delhi

Date: November 2023

Annexure I (Referred to in Para 4 (vi))

1	Adequacy of Internal Audit System	There is an Internal Audit Wing in RGIPT which submits its reports to the Registrar (RGIPT). The Internal Audit has been conducted up to 31 st March 2023.
2	Adequacy of Internal Control System	Internal Control system is commensurate with the size and nature of activities of the entity.
3	System of verification of fixed Assets	Physical Verification of fixed Assets for the year 2022-23 has been conducted by designated Committee.
4	System of Physical verification of Inventory	Physical Verification of Consumables for the year 2022-23 has been conducted by designated Committee.
5	Regularity in payment of Statutory Dues applicable to them.	The income of RGIPT is exempt from Income Tax. RGIPT is regular in payment of statutory dues applicable to them.
6	Significant risk to financial reporting observed during the course of audit	No significant risk perceived.
7	Details of loss of cash or Government property due to theft, misappropriation, fraud and embezzlement etc. during the year	Management certified that no case was reported during the year 2022-23



Director General of Audit (Energy)



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वार्षिक प्रतिवेदन 2022-2023



विद्यार्त्नम् महत्त्वनम्



सम्पर्क **Contact:**

राजीव गाँधी पेट्रोलिएम प्रौद्योगिकी संस्थान (आरजीआईपीटी)

Rajiv Gandhi Institute Of Petroleum Technology (RGPT)

जायस, अमेठी – 229304

Jais, Amethi – 229304

उत्तर प्रदेश, भारत

Uttar Pradesh, India



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