



ANKIT SAHU
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ECHE17015
Male
B-Tech Undergraduate
DOB: 15-04-1998

EXAMINATION	UNIVERSITY	INSTITUTE	YEAR	CPI / %
Graduation	RGIPT	RGIPT	2019	7.12
Intermediate/+2	MP-BOARD	CMC Public School , Jabalpur	2017	80.6
Matriculation	CBSE	Little World School , Jabalpur	2014	9.0

ACADEMIC RESEARCH/ PROJECTS

- **Tracking Slow propagation of Liesegang ring of Silver nanoparticles in Nanodot-Embedded polymer film**
 | Guide: Prof. Debashis Panda, Nano-Bio Spectro lab [Sep'2018-Present]
 - Aimed to trace the slow propagation of Liesegang rings formation during silver nanoparticle diffusion on pva-pvp film over long period of time.
 - Developed various carbon nanodot films to study different liesegang ring pattern formation.
 - Derived equations, plotted data, and wrote manuscript for my research work.
 - Learned to operate various scientific instruments including UV and Fluoro Spectroscopy, optical microscopic imaging along with several scientific softwares and Instrumentation.
- **Smart Room Modulation** | Guide: Science & Technical Committee [Jan'18]
 Developed a small scale smart room model, capable of single handed operation through smartphone device. Won first position in the overall event held during **Winter School 2018, Rgipt**
- **Natural Convection on Isothermal Surfaces**
 | Guide: Dr. Milan Kumar, RGIPT [Oct'18-Nov'18]
 Deduced Heat Transfer coefficient for heated surface via natural convection and analysed the data using MS Excel.
- **Survey on Social Awareness regarding Toilet Sanitation**
 | Course Project | Guide: Prof. Anirban Mukherjee, RGIPT [March'19]
 Conducted a Social Survey on awareness of toilet sanitation and hygiene practices among rural people near Jais, Amethi.
- **Natural Gas Dehydration using Tetra Ethyl Glycol Unit**
 | Course Project | Guide: Prof. Umapasana Ojha, RGIPT [Nov'19]
 Developed a new Structural Design for increasing the efficiency of conventional glycol Dehydration unit for natural gas dehydration.

▪ **Study of Tar and Turndown Ratio in Downdraft Biomass Gasifier for Effective Burner Design**

| Guide: *Prof. Sanjay M. Mahajani, IIT Bombay*

[Dec'19-Jan'20]

- Aim to study the amount of Tar content in Downdraft Biomass Gasifier through main Gas line
- Prepared entirely new setup for particulates and tar content analysis
- Tried to increase the efficiency of Burner used in Gasifier through Design parameters. Carried out complete material and energy balance analysis for the burner using **ANSYS Fluent** simulator

SCHOLASTIC ACHIEVEMENTS

- Recipient of **Chief Minister Medhavi Vidyarti Scholarship** for continuous 4 years
- Acquired **AIR-4220 (OBC)** in JEE (Advanced) among 1.5 Lakh candidates
- Ranked among **Top 3 percentile** in JEE mains among 14 Lakh candidates

TECHNICAL SKILLS

- **Softwares and tools:** Image J, Origin, AutoCAD (Intermediate), MATLAB (Basic), MS Office, ANSYS FLUENT (Beginner)
- **Hardware-skills:** Gas Chromatography, Image Analysis, Column Chromatography, UV Spectroscopy, Fluoro-Spectroscopy

POSITIONS OF RESPONSIBILITY

Sponsorship Manager | *Urjotsav, Annual Technical Festival, RGIPT*

[Oct'19]

- As a part of Core Team along with 12 students, arranged a **sponsorship of 8 Lakhs** for the event.

Cyber Gaming Committee Head | *Urjotsav, Annual Technical Festival, RGIPT*

[Oct'19]

- Organizer in Inter college cyber gaming competition between 12 colleges

Lead Co-ordinator | *Institute Lecture Series, RGIPT*

[Sept'19-Present]

- Is an active coordinator in organising **Institute Lecture Series** conducted by RGIPT, inviting renowned professors and faculties to provide lecture to college students.

Volunteer | *Kaltarang, Annual Cultural Festival, RGIPT*

[March'18]

- Played an important role in managing sponsorship and publicizing the event in more than 20 colleges

WORKSHOP / INDUSTRIAL VISIT

- Workshop on **Data Science & IOT** organized by the **S&T Committee, RGIPT** [March'18]
- Attended workshop on **Computation Fluid Dynamics (CFD)** organized at **Technical Festival IIT Bombay** [Jan'20]
- Model and Poster Presentation on Downdraft Biomass Gasifier at **Techfest IIT Bombay** [Jan'20]
- Industrial visit at **IOCL Refinery, PANIPATH** [Jan'20]