

## Press Release



Science and Engineering Research Board (SERB)-sponsored One-Day Workshop- “*NextGen Spectro(Micro)scopic Method for Energy-Independent Bharat*” has been organized by the Department of Sciences & Humanities at Rajiv Gandhi Institute of Petroleum Technology (An Institute of National Importance), Jais, Amethi, Uttar Pradesh on 07<sup>th</sup> March, 2024. This is an activity of Scientific Social Responsibility (SSR) which is an integral part of SERB-sponsored research projects (Core Research Grant). B.Sc. and M.Sc. chemistry students and teachers of National Postgraduate College, Lucknow have participated in this workshop. More than 50 participants have actively engaged in academic discussion and scientific dissemination of knowledge.

Prof. A. S. K. Sinha, Director, RGIPT has delivered an inaugural address in this event and said hard work, cooperation and collaboration are the recipes for achieving academic excellence and developing entrepreneurial traits. He has shared the research infrastructure and internship opportunities available at RGIPT. Prof. A. K. Choubey, Head of the Department of Sciences & Humanities has presented departmental perspective emphasizing existing research avenues and laboratory facilities.

Prof. Debashis Panda, Dean Student Affairs, RGIPT has briefed his research on spectro(micro)scopic methods for characterization of photoluminescent material and Rice-straw derived Nanocellulose and Lignin. Prof. Arshad Aijaz, RGIPT presented a talk on In-situ characterization methods for Nanocatalysis with an elucidation on hydrogenation reaction. Prof. Sikha Singh taught students conventional spectroscopic tools- FTIR and NMR, whereas Prof. Malay Sahoo and Prof. Omvir Singh presented their research domains and the role of spectroscopic methods in augmenting activity of catalysts.

In this workshop, Prof. Tushar Kanti Mukherjee, Head of the Department of Chemistry, IIT Indore delivered his invited talk on the role of spectroscopic methods to understand enzymatic activity under macromolecular crowding. Prof. Saumya Kanti Khatua, Associate Professor, IIT Gandhinagar has also delivered his invited talk on Nanoplasmonic Catalysis with an emphasis on Gold Nanoparticles. Participants have visited state-of-the-art-research labs including Super Resolution Optical (Fluorescence) Microscopy and Central Instrumentation Facilities including SEM, TEM and XPS.