About the University

GMRITDU: Established in 1997, GMR Institute of Technology has grown steadily with a strong focus on academic excellence and ethical values, earning wide recognition for its quality education and consistent performance. In January 2026, it was notified as a Deemed to be University sponsored by GMRIT Foundation (section 8 Company) under Section 3 of the UGC Act, 1956, by the Ministry of Education, Government of India. GMRITDU provides its learning community state-of-the-art facilities, infrastructure, and a competent faculty. The Institute encourages collaborative learning between industry and academia as a means of reinforcing its curriculum with practical and real-world experiences. All UG programs are accredited by NBA and the institute is accredited by NAAC with 'A' grade. GMRIT University has gained international recognition through its inclusion in the Times Higher Education (THE) World University Rankings and THE Impact Rankings across several Sustainable Development Goals (SDGs).

About the Department

Department of Chemistry under BS&H was established in 1997. The curriculum delves into the multifaceted applications of engineering, equipping students with the expertise to manage resources effectively. A key focus of the department lies in the practical application of physical, chemical and nanomaterial sciences principles across diverse Science and Technology. With an annual intake of 1180 students, the program ensures a learning environment that cultivates a thorough understanding of the theoretical and practical applications. This in-depth exposure prepares graduates for successful careers in various domains of engineering. The department has a highly competent faculty with over 600 Scopus and SCI-indexed publications in different domains

Chief Patron

Dr. J. Girish
Vice Chancellor

Patron

Dr. R.L. Naidu
Dean of Physical Sciences

Advisory Board

Dr. M.V. Nageswara Rao, Registrar
Dr. C.L.V.R.S.V. Prasad, Dean-Engineering
Dr. P. Ramana, Dean-School of Applied Engineering
Dr. A.V. Ramana, Dean-School of Advanced Computing
Dr. Ravindranadh K, Dean-Research
Dr. G. Ganesh Prabhu, Dean-Academics
Dr. G. Sasi Kumar, Dean-Student Affairs
Dr. V. Rambabu, CoE

Chairperson

Dr. Surya Narayan Dash, HoD-BSH-Engineering

Conveners

Dr. M.V. Subbarao, Associate Professor
Dr. D. Pamu, Professor, Department of Physics, IIT Guwahati

Organizing Committee

Dr. B. Viswanadham, Associate Professor
Dr. K. Koteswara Rao, Assistant Professor (SG)
Dr. D. Tejaswararao, Assistant Professor(SG)
Dr. V. Dhilleswararao, Sr. Assistant Professor
Dr. N. Santhosh Kumar, Assistant Professor

Resource Persons

Dr. D. Pamu, Professor, Department of Physics, IIT Guwahati

Prof. (Dr.) M. Saratchandra Babu, Professor of Chemistry, Central Tribal University of Andhra Pradesh

Dr. Putla Sudarsanam, Assistant Professor of Chemistry, Indian Institute of Technology, Hyderabad

Dr. M. Sankararao, CEO & Founder, Nanosol Energy, Hyderabad

Dr. Ch. Chanchayya Gupta, Associate Professor of Chemistry, Indian Institute of Petroleum & Energy, Vishakhapatnam

Dr. T. Pavan Kumar, Principal Scientist, IMMT, Bhubaneswar

Dr. Ravindranadh K, Professor of Physics, GMRITDU

Dr. A. Rambau, Assistant Professor of Physics, GMRITDU

Dr. B. Viswanadham, Associate Professor of Chemistry, GMRITDU

GMRIT Deemed to be University

Conducting One-Week Offline Faculty Development Program in Collaboration with Centre for Nanotechnology, IIT-Guwahati under INUPi2i program supported by MietY, GoI.

Titled

Frontiers in Physical and Chemical Sciences: Innovations in Advanced Materials

4th to 8th May 2026

Organized by

Department of Chemistry

Visit us at:

https://gmrit.edu.in/du/

https://www.iitg.ac.in/proj/inup-i2i/iit-guwahati.html

About the FDP

The Faculty Development Program (FDP) on "Frontiers in Physical and Chemical Sciences: Innovations in Advanced Materials" aims to equip faculty members, researchers and professionals with the latest knowledge and research and development in the field of Science and Technology. This FDP will provide insights into emerging trends in the area energy, environment, material sciences and technologies for faculty development. This FDP is designed to provide participants with a comprehensive understanding of recent breakthroughs, emerging research trends and modern methodologies in the fields of physics, chemistry and advanced materials.

This FDP brings together experts from academia and industry to discuss cutting-edge developments such as nanomaterials, functional materials, sustainable chemical processes, advanced spectroscopic and characterization techniques, quantum technologies, energy-storage materials, and innovative applications in science and engineering. Through interactive lectures, hands-on demonstrations, and research-oriented discussions, the programme aims to enhance the knowledge base of faculty members, researchers, and postgraduate students. Participants will gain deeper insights into interdisciplinary scientific innovations, develop new research perspectives, and strengthen their ability to integrate modern scientific concepts into teaching, research, and collaborative projects.

Overall, this FDP serves as a platform to explore current scientific advancements and fosters the development of innovative solutions to contemporary challenges in physical and chemical sciences.

Objectives

- To introduce recent advances in physical and chemical sciences and innovative materials.
- To explore synthesis and characterization techniques of advanced and nanomaterials.
- To understand structure–property relationships in functional materials.
- To highlight emerging material innovations for energy and environmental applications.
- To familiarize participants with materials for electronic and photonic technologies.
- To encourage interdisciplinary research and innovation in materials science.

Topics Covered

- Nanostructure-Driven Strategies for Efficient Hydrogen Generation and Storage Systems
- Amorphous-to-Crystalline Phase Engineering and Fluorescence Enhancement in Molecular Materials
- Advanced Catalytic Materials for Energy Conversion and Environmental Remediation
- Design and Development of Nanomaterials for Industrial and Engineering Applications
- Green Chemistry Approaches for Sustainable Material Synthesis and Processing
- Structure–Property Relationships in Functional and Smart Materials
- Emerging Materials for Energy Storage, Electronics and Environmental Applications

Contact Persons

Dr. K. Koteswararao	**: 8978360987**
Dr. M.V. Subbarao	**: 9866707190**

Eligibility

All interested Faculty, Research Scholars, PG Students, and Industry Personnel.

Registration Fee

Faculty	:	Rs. 1500/-
Research Scholars	:	Rs. 1000/-
Internal Faculty & PG Students	:	Rs 750 /-
Industry Participants	:	Rs. 2000/-

Bank Account Details for Payment

Account	:	Indian society of Technical Education GMRIT Chapter
Bank Name	:	Union Bank of India

(Please upload payment receipt copy along with the UTR number while doing registration)

Registration Link

https://forms.gle/1k8r5YwrTnspyR1H8

Accommodation

Accommodation will be provided on request within the campus.