



**PRESIDENCY**  
UNIVERSITY

**NAACA**  
ACCREDITED UNIVERSITY

PRESIDENCY SCHOOL OF ENGINEERING

**FDP CHEMICAL SCIENCES IN  
THE MODERN ERA:  
FROM LABORATORY RESEARCH  
TO INDUSTRIAL PRACTICE**

**20<sup>th</sup> JULY TO 25<sup>th</sup> JULY, 2026**



[www.presidencyuniversity.in](http://www.presidencyuniversity.in)

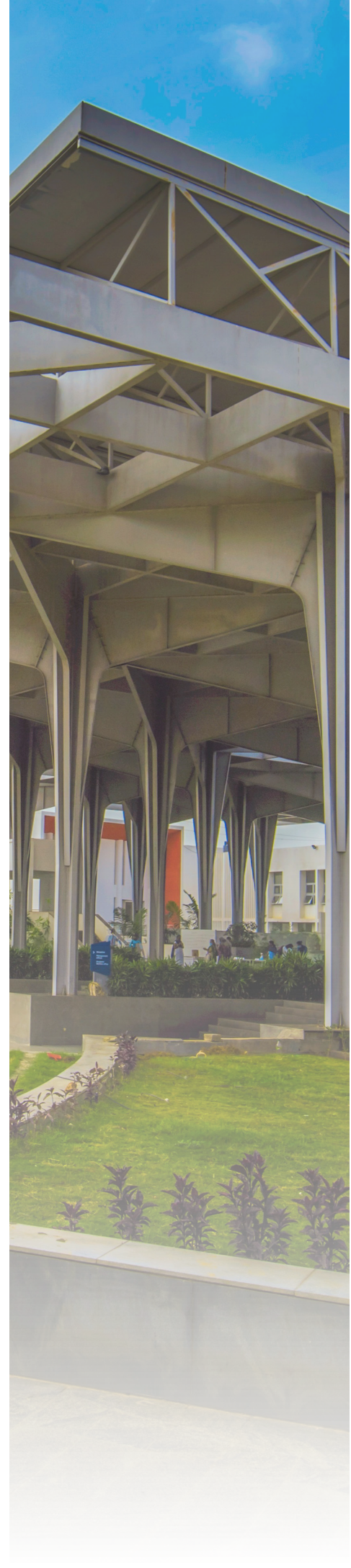
Presidency University, Bengaluru, established in 2013 under the esteemed Presidency Group of Institutions (PGI), is a NAAC 'A' accredited university committed to academic excellence, innovation, research, and holistic student development. Spread across a state-of-the-art 100+ acre campus, the University offers a diverse range of undergraduate, postgraduate, and doctoral programmes in engineering, computer science, management, commerce, law, design, media studies, liberal arts, and allied health sciences. With a strong emphasis on experiential learning, industry-oriented education, and global career readiness, the University provides a dynamic learning environment supported by highly qualified faculty and advanced infrastructure. Its academic achievements have been recognized through prestigious accolades, including the QS I-GAUGE Gold Rating, ranking among the top engineering institutions in national surveys, and the "Best University of the Year (South)" award by ASSOCHAM.

The Presidency Group of Institutions (PGI), founded in 1976, has over five decades of excellence in education and comprises Presidency University, multiple colleges, and a network of reputed schools across Bengaluru and Mangaluru. Serving learners from school to higher education, PGI is known for its commitment to quality education, strong ethical values, and student-centric learning. The group encompasses 8 schools, 4 colleges, and 1 university, supported by more than 2,500 faculty members.

Presidency College, Bengaluru, accredited with NAAC 'A+' grade, is consistently recognized among the leading colleges in Karnataka for its academic excellence and student outcomes. The postgraduate MBA programme at Presidency College is approved by the AICTE, Delhi. The college has earned a strong reputation in national rankings and surveys, particularly in the fields of commerce, management, information technology, and journalism, reflecting its commitment to quality higher education and industry-oriented learning. Over the years, PGI has established itself as one of South India's leading educational groups and has been recognized as the "Most Promising Institute in South India" for its outstanding contribution to education.

## DEPARTMENT OF CHEMISTRY

The Department of Chemistry offers quality Outcome-Based Education supported by state-of-the-art laboratories and advanced instrumentation. It plays a vital role in interdisciplinary teaching by offering chemistry courses to various engineering programmes. Courses such as Chemistry of Smart Materials, Applied Chemistry, Materials Chemistry, and Industrial Chemistry cater to students from Computer Science, ECE, EEE, Civil, Mechanical, and Petroleum Engineering. Environmental Studies is offered as a mandatory course across all schools, along with open electives like Nanotechnology, Smart Materials, and 3D Printing. The department is supported by experienced faculty, modern labs, and an active Ph.D. programme with around twenty-one research scholars, fostering both academic and industry-oriented research through internal and external funding.



## SCOPE OF THE EVENT

The proposed Faculty Development Program aims to bridge the gap between fundamental chemical research and industrial applications in emerging scientific domains. The FDP will provide a multidisciplinary platform for academicians, researchers, industry professionals, and students to explore modern advancements in pharmaceutical sciences, sustainable materials, water purification, and energy storage technologies. The program emphasizes translational research, innovation-driven product development, and industrial relevance of chemical sciences in the modern era. Through expert lectures, technical sessions, and interactive discussions, participants will gain insights into how laboratory discoveries are transformed into real-world industrial and societal applications.

## RELEVANCE OF THE EVENT TO THE CURRICULUM

The FDP aligns closely with the curriculum of Engineering, B.Sc., M.Sc., and Ph.D. programs in Chemistry, Chemical Engineering, Materials Science, Pharmaceutical Sciences, and Environmental Sciences. The topics covered support outcome-based education by integrating theoretical concepts with industrial practices and emerging technologies. The event enhances understanding of advanced materials, medicinal chemistry, sustainable technologies, and industrial product development, thereby strengthening academic learning, research exposure, and employability skills among participants.

## TOPICS TO BE COVERED

- Applications of Nanofillers in Functional Coatings
- From Lab to Patients – The Pharma Story
- Solar hydrogen generation for a sustainable future
- Geopolymers: Wonder Material for the 21st Century
- Bridging Research and Product Development in Water and Energy Storage Technologies
- Biomass-Derived Carbonaceous Materials for Sustainable Energy Storage Technologies



## OBJECTIVES OF THE EVENT

- To provide exposure to recent advancements in chemical sciences and industrial technologies.
- To bridge the gap between academic research and industrial applications.
- To promote interdisciplinary learning among faculty members, researchers, and students.
- To create awareness about sustainable materials and emerging energy technologies.
- To encourage innovation, product development, and translational research.
- To strengthen academia–industry interaction and collaborative research opportunities.

## TARGET PARTICIPANTS

- Faculty members from Engineering, Science, and Pharmacy institutions
- B.Sc., M.Sc., and Ph.D. students in Chemistry and allied disciplines
- Researchers and postdoctoral fellows
- Industry professionals from chemical, pharmaceutical, materials, and energy sectors
- Young innovators and startup enthusiasts

## EXPECTED OUTCOMES

- Enhanced understanding of modern industrial applications of chemical sciences.
- Improved knowledge of translational research and product development strategies.
- Exposure to emerging research areas such as geopolymers, energy storage, and pharmaceutical innovation.
- Strengthened collaboration between academia and industry professionals.
- Development of research ideas and interdisciplinary project opportunities.
- Increased awareness of sustainable technologies and future industrial trends in chemistry.



## DETAILS OF THE SPEAKERS



**Dr. R. K. Arya**  
Associate Professor  
Department of Chemical Engineering  
Dr B R Ambedkar NIT Jalandhar

**Date&Time :** 20<sup>th</sup> JULY 2026  
2:00 pm to 3:30 pm

**Title of the Presentation:**  
Applications Of Nanofillers In  
The Functional Coatings



**Dr. Tom Thomas Puthiaparampil**  
Country Head  
Syner G Biopharma Group, USA

**Date&Time :** 21<sup>st</sup> JULY 2026  
2:00 pm to 3:30 pm

**Title of the Presentation:**  
From Lab To Patients - The Pharma Story



**Dr. Pranjal Saikia**  
Professor  
Gauhati University, Guwahati

**Date&Time :** 22<sup>nd</sup> JULY 2026  
2:00 pm to 3:30 pm

**Title of the Presentation:**  
Solar Hydrogen Generation For  
A Sustainable Future





**Dr. Deepti Mishra**  
Scientist G, CSIR- Advanced Materials and  
Processes Research Institute (CSIR-AMPRI)  
Hoshangabad

**Date&Time :** 23<sup>rd</sup> JULY 2026  
2:00 pm to 3:30 pm

**Title of the Presentation:**  
Geopolymers: Wonder Material  
For The 21st Century



**Dr. H.B. Muralidhara**  
Professor, Center for Incubation, Innovation  
Research and Consultancy (CIIRC)  
Jyothy Institute of Technology Campus  
Bangalore

**Date&Time :** 24<sup>th</sup> JULY 2026  
2:00 pm to 3:30 pm

**Title of the Presentation:**  
Bridging Research And Product  
Development In Water And Energy  
Storage Technologies



**Dr. D. H Nagaraju**  
Professor  
Reva University, Bangalore

**Date&Time :** 25<sup>th</sup> JULY 2026  
2:00 pm to 3:30 pm

**Title of the Presentation:**  
Biomass derived Carbanaceous  
Materials for Sustainable Energy  
Storage Technologies



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