

**Online
Faculty Development Programme
on**

**Future Scope of Chemical
Sciences and Research
Methodology-2020
(FSCSRM-2020)**

**September 21st -25th, 2020
Sponsored by TEQIP-III**

REGISTRATION FORM

1. Name in Block letters :
2. Designation & Affiliation :
3. Male/ Female :
4. Mailing address :
5. Email :
6. Mobile :
7. WhatsApp no. :
8. Educational qualification :

Paste a copy of your photo identity card

Signature :

Signature of sponsoring authorities

N.B.: Online registration is essential, the link for the same is

<https://docs.google.com/forms/d/e/1FAIpQLSeL3x5XhFQ-asxT8Wn3XQi0dkpn83HSEDIKudOziI6THREbKw/viewform>

Organizing Committee

Patron
Prof. J. P. Pandey
Hon'ble Vice Chancellor,
Madan Mohan Malaviya University of Technology
Gorakhpur

Chairman
Dr. R. K. Yadav
Head, Chemistry and Environmental Science Department
MMMUT, Gorakhpur

Convenor
Dr. P. P. Pande
Chemistry and Environmental Science Department
MMMUT, Gorakhpur

Organizing Secretary
Dr. Krishna Kumar
Chemistry and Environmental Science Department
MMMUT, Gorakhpur

TENTATIVE SCHEDULE

| Date | Session | | Timing |
|------------|--------------|-------------|----------------------|
| 21/09/2020 | Inauguration | | 11:30 AM to 12:15 PM |
| | Session I | Lecture I | 12:15 PM to 01:00 PM |
| 22/09/2020 | Session II | Lecture II | 11:30 AM to 12:15 PM |
| | | Lecture III | 12:15 PM to 01:00 PM |
| 23/09/2020 | Session III | Lecture IV | 11:30 AM to 12:15 PM |
| | | Lecture V | 12:15 PM to 01:00 PM |
| 24/09/2020 | Session IV | Lecture VI | 11:30 AM to 12:15 PM |
| | | Lecture VII | 12:15 PM to 01:00 PM |
| 25/09/2020 | Session V | Lecture VII | 11:30 AM to 12:15 PM |
| | | Valedictory | 12:15 PM to 01:00 PM |



मदन मोहन मालवीय प्रौद्योगिकी विश्वविद्यालय, गोरखपुर
Madan Mohan Malaviya University of Technology, Gorakhpur

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**Chemistry and Environmental Science Department
Madan Mohan Malaviya University of
Technology Gorakhpur-273010,(U.P.) INDIA**



About University

Madan Mohan Malaviya University of Technology, Gorakhpur (formerly Madan Mohan Malaviya Engineering college, Gorakhpur established in 1962, upgraded to University status in December 2013) is a residential Technological University established by the Government of U. P., with an aim to evolve and impart comprehensive higher education with focus on Basic sciences, Engineering, Technology, Management and allied areas. The University is situated on state highway Gorakhpur-Deoria road about 8 km from Gorakhpur Railway and Bus Station.

About the Department

The Chemistry and Environmental Science Department was established in the year 2019. The department aims to be a national leader in imparting quality education, carrying out research and technology development. It has well qualified, devoted and dedicated team of teaching staff. The faculty members of Chemistry and environmental science are actively engaged in research activities. Currently two major research projects funded by national agencies are running in the department. The department offers a PG program and Ph.D. in Chemistry.

About Gorakhpur

Gorakhpur derives its name from the great ascetic saint Gorakhnath. Gorakhpur is a city located along with the banks of Rapti River in the eastern part of the Indian state of Uttar Pradesh. It is the head quarter of north-eastern railways and is well connected by rail and road to all important cities of India. It also connected by air to the metropolitan cities as well. It is about 5 - 6 hours run by road from Lucknow and Varanasi. The city is famous for its well-known Gorakhnath Temple and Gita Press.

A number of historical, cultural and tourist sites lie in the vicinity of town. Kapilvastu, the home town of Lord Buddha, is about 90 km from here. The famous Buddhist site, Kushinagar, the nirvana sthal of Lord Buddha, lies at a distance of about 50 km. Maghar, the holy place of saint Kabir Das, is very near to Gorakhpur city and the Nepal border is only 60 km from it.



About the Faculty Development Programme

The Faculty Development Programme has been projected to provide a common platform for interactions between researchers and academicians which will open new doors of scientific works to face new challenges in the area of chemistry for the betterment of life. It is aimed to explore the innovative and creative ideas through interactive sessions of the resource persons and the participants from the different parts of the country. It is also an effort to motivate the young researchers from the different domains of Chemical Sciences to contribute their novel ideas.

Due to countrywide pandemic COVID-19 situation it has not been possible to conduct face to face FDP at this point of time. Therefore, as per the AICTE guidelines, this FDP "FSCSRM-2020" is being conducted online using Google meet Application. All of sessions in this FDP will be conducted by resource persons via online mode and the registered participants can interact with them online using their Desktop/Laptop/Tablet/ Smart Phones etc. with internet connectivity from anywhere across the globe. An online feedback will be conducted at the end of the program. The digital certificate will be issued to those who have attended the program without any absenteeism and who will submit their feedback.

Resource Persons

The Course content will be delivered from a pool of resource persons on the subject from leading industries and prestigious national and abroad institutions.

Who can attend FDP

Participation in this FDP is open to the faculty members of the UGC/ AICTE approved institutions, research scholars, PG students, Scholars, participants from industry (Bureaucrats/ Technicians/ Participants from Industry etc.) and faculty of the host institutions.

Registration Fees

There is no Registration fee for participants.

Number of seats: 50 (First come, First serve)

Pedagogy

PPT Slides handout, online learning, demonstration videos

Last date of registration: 19/09/2020

Email for Communication: fscsr@gmail.com

Please note: FDP will be run on Google meet, please register on Google meet app by your name.

The Faculty Development Programme will cover all broad disciplines of the Chemistry/ Chemical Sciences.

Topics to be covered

> Polymer Chemistry

- ✓ Polymerization Techniques
- ✓ Macromolecules Architecture
- ✓ Hydrogels
- ✓ Microgels
- ✓ Water Soluble Polymers
- ✓ Conducting Polymers
- ✓ Step- Growth Polymers
- ✓ Smart Polymers

> Composite Materials

- ✓ Organic Matrix Composites
- ✓ Ceramic Matrix Composites

> Energy Materials

- ✓ Batteries and Supercapacitors
- ✓ Fuel Cells
- ✓ Magnetocalorics

> Nano Materials

- ✓ Metal Oxide Nanoparticles
- ✓ Carbon-Based Nanomaterials
- ✓ Quantum Dots

> Membrane Science

- ✓ Intelligent Membranes

> Catalysis/ Photo-Catalysis

- ✓ Artificial Photosynthesis
- ✓ Light Harvesting Photocatalysts
- ✓ Catalysts for Water Splitting
- ✓ CO₂ Activation and Hydrogen Generation

> Synthetic Organic Chemistry

- ✓ Natural Product Synthesis
- ✓ Structure Elucidation
- ✓ Total Synthesis

> Drug Design

- ✓ Medicinal Chemistry

> Environmental Chemistry

- ✓ Pollution (Air, Water and Soil)
- ✓ Solid Waste Management

> Carbohydrate Chemistry

> Green Chemistry

- ✓ Ionic Liquids

> Solid State Chemistry

- ✓ Crystals

> Organic Electronics

- ✓ Nanocomposite Dielectric Materials

> Organic Photovoltaics

- ✓ Organic Solar Cells
- ✓ Organic Semiconductors

> Total Synthesis

- ✓ Natural Products for Drug Development