

One week  
National Workshop on  
**Biotechnology for environmental  
management: Sustainable bio-refinery for  
circular economy and bioremediation**

June 03-09, 2024



Department of Biotechnology  
Motilal Nehru National Institute of Technology Allahabad  
ALLAHABAD, 211004, India  
Website: [www.mnnit.ac.in](http://www.mnnit.ac.in)



#### About the Institute

Motilal Nehru National Institute of Technology Allahabad, is an institute with total commitment to quality and excellence in academic pursuits. The institute has been granted the status of Institution of National Importance. It was established as Motilal Nehru Regional Engineering College (MNREC) in the year 1961 as a joint enterprise of Government of India and Government of Uttar Pradesh. MNREC was transformed into National Institute of Technology fully funded by Ministry of Human Resource Development, Govt. of India.

The institute offers B.Tech, M.Tech, Ph.D, M.C.A, M.B.A., M.Sc. (Mathematics and Scientific Computing) degrees in various disciplines of sciences, engineering, technology and humanities.



#### About the department

The Department of Biotechnology at MNNIT Allahabad was established as a new academic unit under Applied Mechanics in 2006, with the objective of integrating life sciences with engineering and to develop cutting-edge technology through research, training and technological innovation. Keeping a beat to the global demands for researchers in this field, a full-fledged post graduate degree course (M. Tech in Biotechnology) was introduced in the year 2010. The department runs PhD program in biotechnology since 2009.

The department gained shape as an independent administrative 'Department of Biotechnology' in 2012. The department comprises of fifteen expert faculty members from diverse areas. The faculties have also been able to generate the external funding from various government agencies viz. DST, DBT, UGC, MNRE etc. and published papers in National/International journals of repute. In addition, we organize International conference every two years, popularly known as the BioSangam

series. We have just concluded the sixth version of this series BioSangam 2024. We also host a DST-FIST laboratory. The department has independent state-of-art modular laboratories to perform experiments in microbiology, immunology, biochemistry, molecular biology, cell culture and bioprocess technology.

#### The city of Allahabad

Allahabad is the sacred city of India where three *holy rivers namely Ganga, Yamuna and invisible mythological Saraswati meet*. The famous *Kumbh* is organised here after every twelve years where hundreds of million people gather for holy bath. The Allahabad has been famous place of learning since long due to its world famous academic institutions.

#### About the course:

**Objective:** The course is to provide up gradation of knowledge and skills for research scholars / faculties / scientists involved in active research in the broad area of environmental management. Currently there is emphasis on achieving sustainable development goals, and implement circular economy. Biotechnological techniques have immense potential in achieving the same. Upcoming technologies like bioethanol, biodiesel, microbial fuel cells, biohydrogen, bioplastics etc just a few examples. The course will provide in depth exposure to them. The lectures will be delivered by distinguished experts of their field. The one week national workshop will include lectures and special case studies and hands on training on the areas of Environmental management of emerging pollutants, Carbon dioxide sequestration, pollution control and impact assessment, Biofuels like bioethanol, biodiesel, biological fuel cells, biological management of industrial waste, climate resilient agriculture. In addition, it will also feature invited lectures from eminent scientists and academicians.

#### Topics to be covered during the workshop:

- Industrial waste management
- Carbon sequestration technologies
- Circular economy for industries
- Waste to wealth conversion
- Production of value added products from waste
- Bioremediation of emerging pollutants
- Phytoremediation technologies

**Tentative list of eminent speakers**

Name & Designation	Research/ Expertise Area	Affiliation
Dr. S. Venkata Mohan	Environmental engineering: Sustainable Technologies, Biofuels, Bio-electrochemical systems	Senior Principal Scientist Indian Institute of Chemical Technology (CSIR-IICT), Hyderabad, Telangana
Prof. Pradeep Srivastava	Microbial Engg., Downstream Processing, Drug Delivery, Tissue Engineering and IPR& Technology Transfer	Professor (On deputation) School of Biochemical Engineering, Indian Institute of Technology, (IIT), BHU, Varanasi, UP Executive Director, TIFAC
Dr. Rakesh Kumar	Environmental Engineering: Air pollution control; Climate Change Studies, Hazardous waste management, Waste water treatment	Chief Scientist CSIR headquarters, Council of Scientific and Industrial Research (CSIR), Anusandhan Bhawan, New Delhi
Prof. Ram Sharan Singh	Bioremediation; Process control; Aerosols; Adsorption	Professor Department of Chemical Engineering and Technology, Indian Institute of Technology, (IIT), BHU, Varanasi, UP
Dr. Natesan Manickam	Biocatalysis and biodegradation Microbial genomics, Functional metagenome	Chief Scientist Environmental Toxicology Division Indian Institute of Toxicological Research, (CSIR-IIITR), Lucknow, UP
Dr. Bhawna Madan	Environmental Biotechnology, Applied Microbiology, Nanotechnology	Scientist Research and Development Center Bharat Petroleum

		Corporation Limited (BPCL) Noida
Dr. Nikhil G.N.	Bio-hydrogen Production; Bio-plastics; Atmospheric monitoring	Assistant Professor National Institute of Technology (NIT), Jalandhar Punjab
Dr. Sunil Kumar	Environmental Engineering and Management in General and Solid & Hazardous Waste Management in Particular	Chief Scientist National Environmental Engineering Research Institute, (CSIR-NEERI), Nagpur, Maharashtra
Prof. Vimal Katiyar	Natural Polymers: Production and Processing; Nano-biotechnology; Organic solar cells	Professor Department of Chemical Engineering, IIT-Guwahati, Assam
Dr. Anee Mohanty	Environmental Engineering, Nano-biotechnology, Applied Microbiology, Biofilms	Assistant Professor National Institute of Technology, Jalandhar Punjab

**Duration:** Seven days workshop from June 03- 09, 2024.

**Number of seats:** 25-30

**Last Date to fill the Application Form:** 20.05.2024

**Accommodation:** The participants may be provided accommodation in the institute guest house and/or hostel depending on the availability, on payment basis. Accommodation can also be booked in nearby hotels directly or through organizers.

**Food:** Lunch, refreshments and tea will be provided to the participants during the course of workshop (charges are included in the registration fee).

**Eligibility:** Undergraduate, post graduate, research scholars and faculty/scientist/industry persons in biotechnology, environment sciences, agricultural sciences, pharmaceutical science bioinformatics, life sciences, medical sciences,

environment sciences, pharmaceutical science or related disciplines

**Patro:** Prof. R. S. Verma

Director, MNNIT Allahabad

**Chairperson:** Head, Dept. of Biotechnology, MNNIT Allahabad

**Coordinator & Convener:**

Dr. Radha Rani

Dept. of Biotechnology

MNNIT Allahabad

Dr. Rupika Sinha

Dept. of Biotechnology

MNNIT Allahabad

**Coordinator & Treasurer**

Dr. Ashutosh Mani

Department of Biotechnology, MNNIT Allahabad

**Advisory Committee:**

Prof. Shivesh Sharma

Department of Biotechnology, MNNIT Allahabad

Prof. Anjana Pandey

Department of Biotechnology, MNNIT Allahabad

**Note:**

- Please fill the application form @ <https://forms.gle/sNc1XPUUx8SKW9BG9>
- A separate application form should be used for every delegate.
- Participants will be selected on the basis of SOP provided and first come first serve due to limited seat availability.
- Acceptance of the applications will be sent through email
- On acceptance of the application, the registration form should be filled within 2 days along with the payment details.
- Link for registration form: <https://forms.gle/sK9tGWwADKjkCorT9>
- Registration fee is non-refundable.

**Bank details for payment:**

- **Account No. SNFCEMNNIT Allahabad**
- **Account No. 10424975574**
- **IFSC Code: SBIN002580**
- **Branch: SBI, MNNIT Allahabad**
- **Swift Code: SBININBB828**
- **Onlinelink:**  
<https://www.onlinesbi.sbi/sbicollect/icollecthome.htm?corpID=5483621>

**Registration Fee: ₹ 2000/- + 18% GST**

Registration fee includes access to lectures, hand on trainings during workshop, along with breakfast, lunch, dinner and refreshments during the workshop period

**How to reach MNNIT Allahabad:** The city of Allahabad is well connected with all parts of India by daily train, buses and flights. Lunch and refreshments will be provided to the participants and are included in the registration fee.

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**For further enquiries contact:**

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