



जैव प्रौद्योगिकी विभाग  
मोतीलाल नेहरू राष्ट्रीय प्रौद्योगिकी संस्थान इलाहाबाद  
प्रयागराज – 211004 (भारत)  
**Department of Biotechnology**  
**Motilal Nehru National Institute of Technology Allahabad**  
Prayagraj – 211004 (India)

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**Notice**

This is to inform that last date of submission of application form for one month self financed summer training programme in Department of Biotechnology (May28-June 27, 2019) has been extended till 20 May, 2019.

**REVISED LAST DATES:**

- Last date of receipt of application form via email : 20<sup>th</sup> May, 2019
- Last date of receipt of hard copy application form via post: 20<sup>th</sup> May, 2019
- Confirmation will be intimated by (through e-mail) : 21<sup>th</sup> May, 2019

  
[Dr. N. K. Singh]  
Head

**SELF FINANCED**  
**ONE MONTH SUMMER TRAINING PROGRAM IN BIOTECHNOLOGY**  
**(STPB-2019)**

**May 28 – June 27, 2019**



**Organized by**  
**Department of Biotechnology**  
**Motilal Nehru National Institute of Technology Allahabad**  
**Prayagraj – 211004 India**

**ADVERTISEMENT-STPB-2019**  
**ONE MONTH SUMMER TRAINING PROGRAM IN BIOTECHNOLOGY**  
**(STPB-2019)**

The Department of Biotechnology proposes to organize one month self financed summer training program in Biotechnology. The course is designed for undergraduate, post graduate and research scholars of institutes, universities and colleges. The course aims to provide up-gradation of knowledge and skills for UG/PG students/research scholars and other stake holders involved in proposed areas of the training program. The course has been designed to cover both theoretical as well as the practical concepts in the respective fields. Lectures will be delivered by faculty members of their field and participants will also receive hands on experience through various lab sessions.

The course is tentatively scheduled from **28<sup>th</sup> May** to **27<sup>th</sup> June 2019**. It is expected that around 40 participants will be attending the same.

Accommodation for outstation students may be arranged in the institute hostel depending on the availability. A nominal fee for hostel accommodation as per the institute norms will be charged from the students.

**ELIGIBILITY:** Undergraduate and postgraduate students, research scholars of Biotechnology or allied fields from UGC/AICTE recognized university/ institute.

**SCOPE:** The complete course broadly covers four areas of biotechnology namely, Microbiology, Molecular, Agricultural biotechnology, Computational tools for Biotechnology, Nano-Technology and Immunology and Fermentation Technology, Environment and Enzyme Engineering. Participants will get the maximum exposure of recent tools used in aforementioned areas of biotechnology.

**COURSE CONTENTS:** Biotechnology encompasses a very wide range of research areas including technological interventions at the interfaces of biology and chemistry, physics, electronics, informatics etc. At one end of spectrum, biotechnology deals with production of high commercial value products such as wine, vinegar, cheese, hormones, antibiotics, proteins and enzymes to investigation of soil microbe interaction to synthesis and characterization nano-sized materials having utility in drug delivery, biomaterial, biosensors. The other end of spectrum of biotechnology includes metabolic engineering of pathways in organisms (plant, animal or microbe) for over-expression of pharmaceutically, medicinally and industrially important molecules, generating transgenic with improved traits, engineering enzyme, gene therapy, cancer and ageing. Another area of research in biotechnology includes use of computational and molecular tools to understand biotechnological processes, molecular mechanisms and accurately predicting the possibilities of processes and mechanism to occur in nature. These areas can also be broadly classified as Industrial, Agricultural, Environmental and Medical biotechnology depending upon the use of tools or techniques under these areas. The list is endless, the scope is wide and opportunities are immense. This summer training program will highlight important aspects of aforementioned areas of biotechnology with expert lectures and hands on training sessions in the same. List of practical sessions (Not limited) to be conducted are as follows:

- Polyphasic taxonomical approach for systematic identification of microorganism.
- Different techniques for microscopic assessment of microorganisms
- Understanding the concepts and techniques of bacterial genetics

- Screening of free-living rhizobacteria for their multiple plant growth promoting traits.
- Toxicological assessment of environmental pollutants on microorganisms by exploiting flow cytometric approach.
- Molecular biology techniques such as PCR amplification & gene cloning
- Allele specific PCR for mutation analysis,
- Database search and sequence analysis, clonal bisulphite sequencing analysis
- Protein structure prediction, Molecular modeling and docking
- Up-stream and down-stream processing of Pectinase and its application in fruit juice clarification
- Bio-process development for ethanol production from lingo-cellulosic biomass
- Immobilization of enzyme,
- In silico engineering of catalytic site of an enzyme.
- Synthesis, Characterization, toxicity assessment and applications of Silver and Gold nanoparticles.
- Isolation and identification of immune entities from human blood,
- Cytokine production upon polyclonal stimulation.
- Extraction of phytochemicals for various applications
- Study of Antiuro lithic activity of herbal plant molecules
- Estimation of food inhibitors in food grains
- Study of anti oxidant activity of plant molecules
- Biofilm formation and quantification
- Microscopic visualization of bacterial biofilms,
- Study of quorum sensing process

#### **FEES & MODE OF PAYMENT:**

Course Fees is Rs. **14,000/- (Rupees Fourteen Thousands only)**. However, course fee for internal student is Rs. **10,000/- (Rupees Ten Thousands only)**. The course fee should be paid through a **Demand Draft**, in favour of “**STPB-2019**” payable at Allahabad. Alternatively, the fee can be directly paid via online transfer to the following account.

Bank Account Name: **STPB-2019 (Current Account)**  
 Bank Account Number: 718400301000359  
 Bank Name: **Vijaya Bank**  
 Branch Name: **MNNIT Allahabad, Prayagraj**  
 IFSC code: **VIJB0007184**

The course fee is non-refundable if student is shortlisted for the course. However, course fee will be refunded in case student is not selected for the course.

**DURATION:** This is a one month training Program. 28<sup>th</sup> May 2019 to 27<sup>th</sup> June 2019

**APPLICATION PROCEDURE:** Application form and information brochure will be available from **20<sup>th</sup> March 2019** to **20<sup>th</sup> May 2019** on the website <http://www.mnnit.ac.in>. The applicants are required to read the instructions for downloading the application form and send the duly filled form to the “**Chairman, STPB-2019, Department of Biotechnology, Motilal Nehru National Institute of Technology Allahabad, Prayagraj-211004, Uttar Pradesh, India**”, along with the application fee [Demand draft] so that it may reach by **20<sup>th</sup> May 2019** . Please also send a scanned copy of your application form, relevant documents and demand draft to following email addresses: [hbiod@mnnit.ac.in](mailto:hbiod@mnnit.ac.in), [ambakrai@mnnit.ac.in](mailto:ambakrai@mnnit.ac.in).

Candidates, who will pay through online mode, have to send a scanned copy of their application form and relevant documents via email mentioning their **transaction details**.

### **REGISTRATION FEE:**

<b>Type of Registration</b>	<b>Fee*</b>
Student's Outside MNNIT Allahabad	: 14,000/-
Student's from MNNIT Allahabad	: 10,000/- (Limited to 5 only)

\* Registration fee includes access to all lecture and practical sessions, participant kit, study material, and Tea/snacks for entire course time.

### **IMPORTANT DATES:**

- Last date of receipt of application form via email :20<sup>th</sup> **May 2019**
- Last date of receipt of hard copy application form via post :20<sup>th</sup> **May 2019**
- Confirmation will be intimated by (through e-mail) : **21<sup>nd</sup> May, 2019**
- Course duration : **28<sup>th</sup> May, 2019 to 27<sup>th</sup> June, 2019**

### **CONTACT ADDRESS:**

#### **Chairman STPB-2019,**

Department of Biotechnology,  
Motilal Nehru National Institute of Technology Allahabad,  
Allahabad-211004, Uttar Pradesh,  
Phone No.: +91 97940 49630, +91 87657 87601  
Email: [hbiod@mnnit.ac.in](mailto:hbiod@mnnit.ac.in), [ambakrai@mnnit.ac.in](mailto:ambakrai@mnnit.ac.in)

### **NOTE:**

- Please mention on the envelope **“STPB-2019 Department of Biotechnology”**
- Candidates should mention their **name, e-mail and contact number in application form and back of demand draft** and also send a scanned copy of their application form and relevant documents via email.
- Candidates who will pay through online mode **must mention the transaction details in the application form** and have to send a scanned copy of their application form and relevant documents via email.
- Consideration of application form in screening procedure will be subjected to realization of payment in the account of STPB-2019.

**Chairman  
(STPB-2019)**

### **Proposed Committee:**

1) Prof. Rajeev Tripathi	Chief Patron
2) Dr. N.K. Singh	Chairman & Coordinator
3) Prof. Shivesh Sharma	Organizing Coordinator
4) Prof. Anjana Pandey	Organizing Coordinator
5) Dr. Sangeeta Negi	Organizing Coordinator
6) Dr. Vishnu Agarwal	Organizing Coordinator
7) Dr. Manisha Sachan	Organizing Coordinator
8) Dr. Seema Nara	Organizing Coordinator
9) Dr. Ashutosh Mani	Organizing Coordinator
10) Dr. Radha Rani	Organizing Coordinator
11) Dr. Ambak K. Rai	Organizing Coordinator & Treasurer
12) Dr. Sameer Srivastava	Organizing Coordinator



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One Month Summer Training Program in Biotechnology (STPB-2019)  
APPLICATION FORM

**FEE DETAILS:**

Mode of payment: .....[Demand draft/online payment]  
Amount: .....Draft/transaction No.:.....  
Bank Name:.....  
Date of transaction [for online only]: .....  
Category: .....[from MNNIT or Outside MNNIT]

Affix your  
recent  
passport size  
photograph

**DETAILS OF CANDIDATE:**

Name: .....  
Name of Father/Mother/Guardian:.....  
Age:.....Gender:.....[M/F]  
Course [currently pursuing]:.....  
Name of Institute/University/College [with address]:.....  
.....  
.....District: .....State: .....PIN:.....  
Corresponding Address: .....  
.....  
.....  
Mob. No.: ..... Email: .....

**ACADEMIC DETAILS [Attach relevant documents]:**

S. N.	Name of degree	College/school	Board/University	Percentage Marks/Grades	Distinction [if any]
1.	10 <sup>th</sup> /equivalent				
2.	12 <sup>th</sup> / equivalent				
3.	B.Tech./ B.Sc. or equivalent				
4.	M.Tech./ M.Sc. or equivalent				
5.	Others				

FELLOWSHIP/ AWARD/ DISTINCTION [if any]: .....

**NAME OF THE REFEREE**

Referee-1	Referee-2
Mob./Ph.:	Mob./Ph.:
Email:	Email:

**Note:**

- ✓ Submit a brief CV highlighting the strength of candidature
- ✓ Last date of receipt of e-copy of the application form along with all relevant documents and fee payment proof is 05<sup>th</sup> May 2019.
- ✓ Last date of receipt of hard copy application is 10<sup>th</sup> May 2019 [for only offline payments].

I hereby certify that the above information is correct to the best of my knowledge and belief. I have not suppressed any materials fact or factual information in above statement.

Date:

Place:

Signature of Candidate