



PMMMNMTT  
Scheme



## **An Online Faculty Development Programme**

**On**

### **“Emerging Trends in Biotechnological Advancements: Challenges and Prospects in Tackling Human Diseases”**

**13<sup>th</sup> – 17<sup>th</sup> July 2020**

Call for Registration and Participation

#### **Coordinators:**

**Dr. Chockalingam S  
Dr. Prakash Saudagar**

#### **Organized by**

**Department of Biotechnology  
in association with  
Teaching-Learning Centre  
National Institute of Technology  
Warangal – 506 004, India.**



#### **Overview of the workshop:**

Biotechnological advancements continue to make major strides and are rapidly expanding due to its importance in the development of therapies for human diseases. Disease biology is a complex subject, in which there is an inherent heterogeneity owing to the multifaceted causes and origin of different diseases. The molecular events and the signaling networks vary vastly from one disease to another. Hence the faculty need to update and reorient themselves to meet the rapidly changing professional and scientific needs of the stakeholders. This workshop focuses on teaching several basic concepts of the biology of human diseases including various infectious and non-infectious diseases, the pathology behind those diseases, and the advancements in the therapeutic regimes for those diseases. In addition to the theoretical concepts, different analytical techniques that are useful in the diagnosis and drug development will also be discussed.

#### **Objectives of the Workshop:**

- To empower the teaching and learning capabilities of the participants with emphasis on improvisation of their teaching skills of advanced topics of biotechnology.
- To update the participants with the online tools and recent advances in therapeutic strategies for treating human diseases.
- To enhance the understanding of the pathogenesis of the infectious diseases and their treatment modalities.
- To equip the participants with the knowledge of experimental techniques for enhancing teaching and research in disease biology.

#### **Topics in the Workshop:**

- Principles and methods of technical teaching and learning
- Different online teaching models
- Pathology of infectious diseases
- Analytical techniques used in disease biology research
- Advancements in structural biology approaches
- Computation tools for use in drug development

#### **Resource Persons:**

Eminent international researchers and faculty members from IITs, IISc, NITs, Centrally funded Institutes and Universities will deliver the lectures.

#### **Registration is open to:**

- Faculty members of higher education Institutions in both Science, Engineering and Pharmacology institutions who work and teach life sciences and pharmacology.
- Research Scholars aspiring for positions in technical teaching in the areas of biotechnology, pharmacology and related interdisciplinary areas.

#### **How to Apply:**

Eligible candidates may register by using the following link: <https://forms.gle/4XH7N4vAU54GKuxDA> . The programme is conducted online. The number of participants in the workshop is limited to 50. Candidates are advised to apply early to avoid disappointment.

### Registration Fee:

Category of participants	Registration Fee
Faculty	Rs. 750/-
Research Scholars	Rs. 400/-

**Note:** Registration fee for Faculty and Students of SC/ST category is **half of the amounts** mentioned above as applicable.

### Bank Details:

Registration fee can be **remitted On-line / NEFT** to the Bank Account given below. Local participants may also pay the registration fee in cash to the Coordinators in the Department of Biotechnology.

Account Name	DIRECTOR Research, NIT WARANGAL
Account Number	62266262236
Bank	State Bank of India
Branch	REC Warangal (NIT Campus)
Branch Code	20149
IFSC code	SBIN0020149

### Brief profile of the Department of Biotechnology:

The Department of Biotechnology commenced with B.Tech program in Biotechnology (2006), also offers doctoral program in Biotechnology. The Department has highly motivated, experienced, as well as young faculty members carrying out research in key areas of biotechnology. At present 18 PhD scholars are carrying out their research work under the guidance of faculty in the department. The department has sophisticated instruments such as RT-PCR, HPLC, GC etc., Currently the department has more than 10 research projects funded by DBT/DST/ICMR/CSIR, Govt. of India.

### About NIT Warangal:

National Institute of Technology Warangal, formerly known as Regional Engineering College was established in 1959. Over the years it has developed into a premier institute of higher learning and is ranked among the top 20 technical education institutions in India. There are 14 departments offering eight undergraduate and 31 post-graduate programmes besides doctoral programmes. About 5000 students across the country and about 500 international students study on the campus. It is a fully residential campus sprawling over 250 acres with excellent infrastructure in the form of state of the art library, seminar halls, guest houses and research laboratories.

### Teaching-Learning Centre of NIT Warangal:

The Teaching-Learning Centre (TLC) is established at NIT Warangal with grants from the MHRD, GOI under the scheme, 'Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching' (PMMNMTT). Many senior and young faculty members across various departments of the institute are associated with this center as members of the Core-Team. One of the important objectives of the center is to conduct training programs for Aspiring, Newly Inducted and In-Service faculty in Science and Engineering disciplines. Other activities of the TLC include preparation of e-learning materials, offering courses on-line, curriculum development, carrying out research in pedagogy and integrating ICT into teaching-learning process.

### About Warangal:

Warangal is the second largest city of the new state of Telangana. It is situated at a distance of 140 km from the state capital Hyderabad (Nearest Airport). It is well connected by Rail (Kazipet Junction is two km away and Warangal Station is 12 km away) and by Road (NH 202). Warangal is renowned for its rich historical and cultural heritage. It was the seat of erstwhile Kakatiya dynasty. It is a seat of tourist attractions with a number of historical monuments like Thousand Pillars Temple, Warangal Fort, Bhadrakali Temple, Ramappa Temple and Lankavaram Lake located in a radius of 30 kms.



**For any queries regarding this workshop, please contact any of the following coordinators.**

**Dr. Chockalingam S**

**Dr. Prakash Saudagar**

Department of Biotechnology

National Institute of Technology, Warangal

Telangana State, 506004, India.

**Ph.: 8332969461, 9502205174.**

**E-mail: [chocks@nitw.ac.in](mailto:chocks@nitw.ac.in), [ps@nitw.ac.in](mailto:ps@nitw.ac.in)**

**Prof. A.Ramachandraiah**

Coordinator, Teaching Learning Centre, NIT Warangal

E-mail: [mtlc.nitw@nitw.ac.in](mailto:mtlc.nitw@nitw.ac.in)