5-Day Online FACULTY DEVELOPMENT PROGRAM (FDP)

Bridging Mathematics and Biology: Modelling and Analysis

6th to 10th April 2026

Organized by

CENTRE FOR TRAINING AND LEARNING, NIT WARANGAL

(Established under the PMMMNMTT Scheme, Ministry of Education, Govt. of India)

in association with

Department of Mathematics and Department of Biotechnology

National Institute of Technology Warangal

Preamble:

The Centre for Training and Learning (CTL) has been established at NIT Warangal with grants from the Ministry of Education, through its scheme *"Pundit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT)".* Under this Scheme, a separate building has been built exclusively for the CTL activities, with the state-of-art training facilities that include a studio for production and uploading of video and e-lectures on various subjects of higher education, training halls to train the faculty in various theme areas of Science and Technology, humanities and social sciences, linguistics and communication skills, pedagogy and cognition evaluation, etc. among others. One of the important objectives of the Centre is to conduct training programmes for the aspiring, newly inducted and in-service faculty in science, engineering, social sciences disciplines in higher education. Other activities of the CTL include preparation of print and e-learning materials, offering on-line courses, curriculum design, carrying out research in educational technology and pedagogy and integrating with ICT into teaching-learning process. The CTL has special programmes of training for the marginalized and women-faculty.

About FDP:

This FDP is devoted to addressing the need to enhance the knowledge about the latest technologies pertaining to the foundations and frontiers in differential equations and its application in Biology. It is being conducted in online mode by the National Institute of Technology, Warangal.

Major Course Contents:

- Foundations of Mathematical Biology
- Biological Applications: Epidemiology, Ecology& Population Dynamics, Neuroscience Models
- Computational and Simulation Techniques: Numerical Methods, Parameter Estimation & Data-Driven Methods, Machine Learning for Biological Modeling
- Software Demonstrations:
  MATLAB ODE/PDE toolbox,
  Mathematica solvers
  Python for differential equations
- Emerging & Frontier Topics: PINNs (Physics-Informed Neural Networks) for biological PDEs

Faculty conducting this programme:

The programme will be conducted by the faculty members from NIT Warangal and Academicians in the concerned field from IITs/NITs/IIITs have been invited to deliver lectures in the programme.

Registration Fee Particulars:

Faculty	**Rs. 1180/-**
Students / Research Scholars	**Rs. 590/-**
Industry Participants	**Rs. 2360/-**

Registration fees includes GST. Participants need to pay the registration fees online using thefollowing details

Online Transfer Details

Account Name: **HEAD, CTL NITW**
Account No: **40376545007**
IFSC: **SBIN0020149**
Bank and Branch: **SBI, NIT(REC) Warangal**

How to apply:

Participants are required to fill the online registration form by clicking on the following link:

https://forms.gle/ihfGxq7Jt8KJaDBs8

Selection Criteria:

Selection will be done based on first-come-first-serve to a minimum number of 50 (Fifty) Faculty/industry participants. Additionally, students/PhD scholars are allowed to participate. The list of selected participants will be intimated through e-mail. In case the candidate is not selected, the registration amount will be refunded. Candidates will be issued certificates on successful completion of the course.

Important dates:

Last date (Application)	4th April 2026
Selection List by E- mail	5th April 2026

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 technical education institutions in India. There are 14 Departments offering eight undergraduate and 31 post-graduate programs 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. The Department of Mathematics at NIT Warangal plays a vital role in teaching and research across engineering and science disciplines. It offers courses at undergraduate, postgraduate levels. The department has strong research expertise in areas such as applied mathematics and pure mathematics. The Department of Biotechnology at NIT Warangal is dedicated to education and research in modern biological sciences and engineering. The department is equipped with advanced laboratory and computational facilities. It encourages interdisciplinary research to address challenges in healthcare, agriculture, and environmental sustainability.

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SPONSORSHIP CERTIFICATE

1. Name:
2. Designation:
3. Institution:
4. Email:
5. Mobile No:
6. Payment Details
   Reference No:
   Amount:
   Bank:
   Date:
7. Address for Correspondence:
8. Educational Qualification:
9. Subjects taught so far:
10. No. of refresher courses/workshops attended:
11. Experience (in years):
12. Teaching: Research: Industry:

Declaration

The information provided is true to the best of my knowledge. If selected, I agree to abide by the rules and regulations of the FDP and shall attend the course for the entire duration. I also undertake the responsibility to inform the coordinator in case, I am unable to attend the course.

Date:
Place: **Signature of the Applicant**

Dr. /Mr. /Ms ..... is an employee of our Institute/Organization and is hereby sponsored to participate in the FDP on **Bridging Mathematics and Biology: Modelling and Analysis,** sponsored by the Centre for Training and Learning (CTL) during **April 6th to 10th 2026.**

Signature of Head of Institution (with seal)
Address for correspondence

Coordinators:
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Dr. P. Anbumathi
Dept. of Biotechnology
Email: anbu@nitw.ac.in
Dr. D. Bhargavi
Dept. of Mathematics
Email: bhargavi@nitw.ac.in

It is requested to all the delegates that, after completion of application form, all the payment details, screenshot of the payment and scanned application form must be uploaded in the following online registration link.

Registration Link:

For more details about CTL of NIT Warangal, please visit:
https://nitw.ac.in/ctlcenter

For more enquiries please contact:
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