5 DAY ONLINE FACULTY DEVELOPMENT PROGRAM (FDP)
ON
Molecular pharmaceutics for targeted cancer therapy: From design strategies to clinical trials

(25th to 29th May 2026)

Organized by

CENTRE FOR TEACHING AND LEARNING, NIT Warangal

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

in association with

Department of Chemistry and Department of Biotechnology

National Institute of Technology Warangal

Preamble:

The Centre for Teaching and Learning (CTL) has been established at NIT Warangal with grants from the Ministry of Education, through its scheme *"Pandit 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, and social sciences disciplines in higher education. Other activities of the CTL include preparation of print and e-learning materials, offering online 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:

Molecular pharmaceutics are synthetic and natural therapeutic agents that show beneficial effects towards cancer. However, they often cause harmful side effects towards healthy cells because of their inherent toxicity. Consequently, keen attention is being paid towards developing selective therapeutic agents to reduce the toxicity. Pharmaceutical design currently relies on a combination of passive and active targeting mechanisms to overcome physiological barriers. Passive Targeting relies on enhanced permeability and retention while active targeting by functionalization of drug molecules with monoclonal antibodies, peptides or small molecules. Although several designed molecules and their formulations were tested preclinically, translation to the clinic remains a significant challenge. Major hurdles for clinical translation are i) Resistance: Tumors often develop acquired resistance through target mutations or bypass signaling pathways. ii) Manufacturing: Difficulties in scaling up while maintaining batch-to-batch consistency. iii) Toxicity: Potential long-term accumulation of non-biodegradable materials. Therefore, the program focused on understanding the hurdles and possible solutions for bringing the laboratory design to clinical trials and further to translation.

Major Course Contents:

- Introduction to Molecular pharmaceutics
- Design strategies
- Mechanisms of action
- Targeting strategies for cancer
- Clinical trials to translation

Faculty conducting this programme:

The program will be conducted by the faculty members from NIT Warangal. Academicians in the field concerned from reputed institutes such as IITs/NITs/IIITs have also been invited to deliver lectures in the program.

Registration Fee Particulars (including 18% GST):

Faculty	**Rs.1180/-**
Students / Research Scholars	**Rs. 885/-**
Industry Participants	**Rs.2360/-**

Participants need to pay the registration fees online using the following 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/731CCkhFk6wMPdoa9

Selection Criteria:

Selection will be made based on first-come-first-serve to a maximum number of 50 (fifty). Additionally, 10 participants from industry 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. Reservations are followed for selecting candidates as per GOI norms.

Important dates:

Last date for application	17/05/2026
Selection List by E- mail	20/05/2026

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 postgraduate 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.

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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 of informing the coordinator in case, I am unable to attend the course.

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

SPONSORSHIP CERTIFICATE

Dr. /Mr. /Ms..... is an employee of our Institute/Organization and is hereby sponsored to participate in the online FDP on **"Molecular pharmaceutics for targeted cancer therapy: From design strategies to clinical trials"**, sponsored by the Centre for Teaching and Learning (CTL) during **25th to 29th May 2026** at NIT Warangal.

Signature of Head of Institution (with seal)

Address for correspondence
Post your application form to
Course Coordinator
Prof. Jugun Prakash Chinta
Department of Chemistry
NIT Warangal
Warangal 506004
Mobile: 9898625503
Email: jugun@nitw.ac.in

It is requested to all the delegates, 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: https://forms.gle/731CCkhFk6wMPdoa9

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

For more enquiries please contact:
Prof. Jugun Prakash Chinta & Prof. S. Chockalingam
and
Prof. M Sailaja Kumari,
Professor and Head, CTL
Mobile: 0870-2462235
Email: ctl_hod@nitw.ac.in

Chairpersons:
Prof. Penta Santhosh (Head, Department of Chemistry)
Prof. B Rama Raju (Head, Department of Biotechnology)

Coordinators:

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