



NATIONAL INSTITUTE OF TECHNOLOGY
WARANGAL

Warangal - 506 004, Telangana

TEACHING LEARNING CENTRE

(A Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching)



*A Six-Day Online Faculty Development
Programme on*

“EFFECTIVE TEACHING AND LEARNING OF MODERN DRUG DISCOVERY PROCESS”

4th-9rd March 2021

Call for Registration and Participation

Coordinator(s)

Dr. Dhurke Kashinath

Dr. V. Rajesh Kumar

**Department of Chemistry
NIT Warangal**

Organized by the

DEPARTMENT OF CHEMISTRY

**In Association with the
TEACHING LEARNING CENTRE**

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



Overview of the FDP:

Providing affordable medicines is one of the goal of sustainable development. Large amount of population around the globe is far from getting the medical treatment at reasonable price. This may be due to the cost involved in the whole process of drug discovery and development. The total cost of the drug discovery process can be reduced by developing appropriate technologies used as tools in the preclinical and clinical phases of drug discovery process. For this, the in-depth knowledge about the subject and decision-making is very important. These skills can be imparted to the students during the undergraduate and postgraduate programs and very much desirable to include in the curriculum of pharmacy and medicinal chemistry education. The recommendations of New Education Policy-2020 (NEP 2020) also indicate the skills to be developed in the students has to be taught in the classroom with emphasis on the practical knowledge on the subject. This is possible only if the teacher is having knowledge in the current practices of the subject in the industry. With this background, this FDP is planned to give an overall idea of modern methods of drug discovery process to the participants. So that, they can transfer the knowledge to the students effectively. This FDP will be emphasized the relevance of medicinal chemistry in the pharmacy curriculum, its role in the evolution of pharmacy, and its paradigm shift to pharmaceutical care, as well as its history and intellectual domains. As some educators are already engaged in this endeavor. However, the future research/reviews should address the scope of medicinal chemistry in the pharmacy curriculum with appropriate drug class examples. The components of drug design and discovery contribute to the pharmacy student's foundational knowledge base and will have a tremendous impact in advancing the professional leadership in the pharmaceutical and health care sectors.

Objectives of the FDP:

- To enhance the understanding of the process of making a molecule from laboratory to market
- To empower the participants to take the contemporary topics of medicinal chemistry and sub-subjects to the class room

Topics to be covered:

This FDP will focus on the effective teaching and learning of various principles of modern drug discovery process. The main topics are:

- Target scouting (Identifying the therapeutic area) for the drug discovery programs
- Applications of basic concepts of medicinal chemistry for drug discovery
- Importance of Organic Chemistry (for the Lead discovery)
- Importance of Organic Chemistry (Process Development and Impurity Profiling)
- Modern approaches of pharmacology for the drug development
- Modern approaches of pharmaceuticals in drug discovery
- Natural products based drug discovery
- Computational Chemistry and Drug Discovery
- Regulatory affairs, Pharmacovigilance and importance of intellectual property in drug industry
- Effective use and searching techniques of literature (search engines and data bases)

Resource Persons:

Eminent Faculty from IITs, DIPSAR/DPRSU, NIPERs, Pharmaceutical/fine chemical industries, Teaching Learning Centres and Senior Faculty from NIT Warangal.

Mode of Delivery:

Resource Persons will deliver the lectures online mode via Google Meet. The essence of the FDP is to improve the teaching ability of the teachers and enabling the learners to learn. Ultimate goal of the FDP is to develop the faculty members in the new pedagogy and emerging areas of science and technology.

Registration is open to:

The program is open to all chemistry and pharmacy teachers and graduates students. The number of participants is 75 (not more than 100). The selection will be on priority basis. The Registration form can be

How to Apply:

Eligible candidates may apply by submitting the scanned copy of the filled in registration form (attached with this mail/ brochure) by E-mail to chemfdp2021@gmail.com or before **28-02-2021** along with the requisite Registration Fee.

Registration Form:

Faculty members can also complete their Registration Online by filling the Google Form given here under:

https://docs.google.com/forms/d/e/1FAIpQLSdf25i5TVXHZ1FwUsGhP2D_CvG0I64kAYtJz0Z1mDFJG76aow/viewform?usp=sf_link

Note: Keep the payment receipt ready as a PDF file (size < 1 MB)

Registration Fee:

Category of Participants	Amount in Rs.
FacultyMembers	600 /-
Research Scholars	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 need to be remitted through On-line / NEFT to the Bank account given below. Scanned copy of the DD / Proof of remittance of the requisite registration fee (with transaction number if online transaction) shall be sent as attachment by E-mail to

Account Name	Director, Research Account, NITW
Account Number	62266262236
Bank	State Bank of India (SBI)
Branch	NIT Warangal Campus
IFSC code	SBIN0020149

Confirmation of Participation:

On receipt of the registration form along with proof of payment of registration fee, participants will be sent confirmation of their participation through E-mail by **28-02-2021**. The number of participants for this program is 75 (not more than 100).

Brief profile of the Department:

The department of chemistry was established in the Year, 1959, as an integral part of the Regional Engineering College Warangal (RECW). Since its inception, the department is greeted as one of the most academically active departments in the Institute. Department offers chemistry course to all engineering branches and two years M.Sc. Chemistry with specialization in Organic and Analytical Chemistry. The department has been conducting cutting-edge research in contemporary topics of Organic, Inorganic, Physical and Analytical Chemistry. In the department, various state-of-the-art facilities such as 400 MHz NMR, HRMS, gas chromatography, HPLC, FTIR, UV-vis-NIR, fluorescence, electrochemical workstation, computational chemistry software, etc. are available. As a part of continuing education and outreach activities, department organized several national and international Conferences, seminars and workshops.

Teaching Learning Centre of NIT Warangal:

The Teaching Learning Centre (TLC) is established at NIT Warangal with grants from the MHRD, under the scheme, 'Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching' (PMMMNMTT). Many senior and young faculty members across various departments of the Institute are associated with this Center as 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, Engineering and Social Sciences disciplines in higher education. Other activities of the TLC include preparation of print and e-learning materials, offering courses on-line, curriculum development, carrying out research in educational technology and pedagogy and integrating with E&ICT into teaching-learning process. A permanent multi-floor establishment with Training Halls, Studio, MOODLE and MOOCs, etc. facilities is under construction. The TLC has special programmes of training for the marginalized and women-faculty.

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.

For any queries regarding the FDP, please contact the Programme Coordinator:

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For further details about Teaching Learning Centre, please contact:

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PANDIT MADAN MOHAN MALAVIYA TEACHING LEARNING CENTRE

