ONLINE FACULTY DEVELOPMENT PROGRAM (FDP)
ON
Emerging trends in targeting oxidative stress in non-communicable diseases

(10th - 14th November 2025)

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 Chemistry 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 *"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 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:

Oxidative stress is known to play an important role in non-communicable diseases such as cancer, neurodegenerative and cardiovascular diseases, which are the major causes of deaths worldwide. All these diseases are characterized by increased oxidative stress triggered by an imbalance between reactive oxygen species (ROS) and antioxidant defenses, which contribute to genetic mutations, tumor progression, and therapy resistance. ROS can damage DNA, proteins, and lipids within cells, promoting tumorigenesis, inflammation, and angiogenesis. Targeting oxidative stress has emerged as one of the promising strategies for treating the above-mentioned diseases. Although several antioxidants have exhibited therapeutic potential in preclinical studies, clinical trial results have been disappointing. Therefore, a greater understanding of the mechanisms through which antioxidants act and where and when they are effective is necessary to provide a rational approach that leads to greater pharmacological success. This program focuses on the recent developments in understanding the mechanisms of oxidative stress and effective strategies to target non-communicable diseases.

Major Course Contents:

- Introduction to oxidative stress
- Effect of oxidative stress on non-communicable diseases
- Mechanisms of oxidative stress
- Therepeutic strategies to target oxidative stress

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. 590/-**
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	31/10/2025
Selection List by E- mail	05/11/2025

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 FDP on **"Emerging trends in targeting oxidative stress in non-communicable diseases"**, sponsored by the Centre for Training and Learning (CTL) during **10th - 14th November 2025** 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:

Prof. Jugun Prakash Chinta
Department of Chemistry
NIT Warangal
Warangal 506004
Mobile: 9898625503
Email: jugun@nitw.ac.in

Prof. S. Chockalingam
Department of Biotechnology
NIT Warangal
Warangal 506004
Mobile: 9502205174
Email: chocks@nitw.ac.in