5-Day Online Faculty Development Program (FDP)
ON
Next-Generation Materials and Manufacturing for Energy Storage and Nuclear Technologies

4th - 8th November, 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 Metallurgical and Materials Engineering
National Institute of Technology Warangal

Preamble:

The Centre for Teaching and Learning (CTL) has been established at NIT Warangal with grants from the Min. 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, 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:

The FDP on "Next-Generation Materials and Manufacturing for Energy and Mobility: Lightweight Materials, Energy Storage and Nuclear Technologies" will focus on emerging materials and manufacturing approaches for modern energy and transportation systems. The programme will cover lightweight structural materials, advanced alloys, battery and electrochemical energy-storage technologies, nuclear materials, and advanced joining and manufacturing methods. Particular attention will be given to material processing, microstructure, interfaces, performance, durability, and safety. Key challenges such as fast charging, battery degradation, lightweighting, dissimilar-material joining, radiation tolerance, and sustainable manufacturing will also be discussed. Through expert lectures and case-based discussions, the FDP will promote interdisciplinary learning and strengthen participants' research and teaching perspectives.

Major Course Contents:

- Lightweight Materials and Alloys
- Battery and Energy Storage Technologies
- Nuclear Materials and Applications
- Advanced Manufacturing Technologies
- Welding and Joining of Advanced Materials
- Materials Characterization and Performance.

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:

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

Registration fees includes GST. 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/ETbXrenPfoG4viWy9

Selection Criteria:

Selection will be done based on first-come-first-serve. 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	02/11/2026
Selection List by E- mail	03/11/2026

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.

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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 to inform 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 **"Next-Generation Materials and Manufacturing for Energy and Mobility: Lightweight Materials, Energy Storage and Nuclear Technologies"**, sponsored by the Centre for Training and Learning (CTL) during **4th – 8th November, 2026** at NIT Warangal .

Signature of Head of Institution (with seal)

Address for correspondence

Post your application form to

Course Coordinators

Prof. Bharath Bandi, Prof. Sanghamitra Moharana, Prof. Mahesh Kumar Talari & Prof. Kishore Babu Nagumothu
Department of Metallurgical and Materials Engineering
NIT Warangal, Warangal – 506004.
Mobile: 9866135750 / 7788980274 / 8179048491 / 9121402468
Email: bharathb@nitw.ac.in, sanghamitram@nitw.ac.in, talari@nitw.ac.in, kishorebabu@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/ETbXrenPfoG4viWy9

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

For more enquiries please contact:

Prof. Bharath Bandi, Prof. Sanghamitra Moharana, Prof. Mahesh Kumar Talari & Prof. Kishore Babu Nagumothu

and

Prof. M. Sailaja Kumar,
Professor and Head, CTL
Mobile: 0870 2462235
Email: ctl_hod@nitw.ac.in

Coordinators

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