Hands-on Skill Development Workshop on

Fundamentals and Applications of Mammalian Cell Culture Techniques

15th – 19th December 2026

Organized by

CENTRE FOR TEACHING AND LEARNING

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

In association with

Department of Biotechnology

National Institute of Technology, Warangal – 506004, Telangana, INDIA

Department of Biotechnology, NIT Warangal

Established in 1959, the National Institute of Technology Warangal (NIT Warangal), formerly Regional Engineering College, is a premier technical institution in India, offering undergraduate, postgraduate, and doctoral programs. Its 250-acre residential campus is equipped with modern infrastructure and state-of-the-art research facilities. Established in 2006, the Department of Biotechnology offers B.Tech., M.Tech., and Ph.D. programs, supported by 20 experienced faculty members. Its research spans Bioenergy and Environment, Cellular and Omics Research, and Bioinformatics and Computational Biology. With sophisticated laboratories, externally funded research projects, and collaborations with leading research institutions, the Department is committed to advancing scientific discovery, fostering innovation, and translating cutting-edge biotechnological research into impactful solutions for societal and industrial challenges.

Centre for Teaching and Learning:

The Centre for Teaching and Learning (CTL) at NIT Warangal was established with support from the Ministry of Education under the PMMMNMTT scheme. Equipped with state-of-the-art training halls and a multimedia studio, CTL conducts faculty development programmes in science, engineering, humanities, social sciences, pedagogy, and communication skills. Its activities include developing e-learning resources, offering online courses, curriculum design, and educational research.

About the course

The 5-day residential hands-on workshop on Mammalian Cell Culture Techniques and Cellular Assays is designed to provide participants with comprehensive hands-on training in fundamental and advanced techniques routinely employed in cell biology and biomedical research laboratories. The program aims to bridge theoretical understanding with practical laboratory skills essential for students, researchers, academicians, and industry professionals working in biotechnology, life sciences, pharmacology, and related fields.

The workshop will cover key aspects of mammalian cell culture, including aseptic handling practices, subculturing and maintenance of adherent cell lines, cryopreservation, revival and thawing of frozen cells, and cell counting techniques for assessing viability and growth. Participants will also gain practical exposure to widely used functional assays such as the MTT assay for cell viability and cytotoxicity analysis.

In addition, the workshop will introduce immunofluorescence staining and fluorescence microscopy techniques for visualisation and analysis of cellular components and protein localisation. Emphasis will be placed on experimental design, troubleshooting, data interpretation, and laboratory safety practices.

By the end of the workshop, participants will acquire valuable technical expertise and confidence in handling mammalian cell cultures and performing essential cellular assays widely used in academic research, translational studies, and pharmaceutical applications.

Eligibility:

The program is open to early-career researchers, young faculty, and research scholars involved in cell culture research.

Registration Fee:

(To be paid after intimation of selection)

Academic/ non-profit organisations	**₹ 5,900/- (5000 + 18% GST)**
Industry participants:	**₹ 9,440/- (8000 + 18% GST)**

	Online Transfer Details
Payment details	Account Name: HEAD, CTL NITW Account No: 40376545007 IFSC: SBIN0020149 Bank and Branch: SBI, NIT (REC) Warangal

NOTE:

No TA/DA will be given for participation in the workshop. The participants have to make their own arrangements for travel, food and accommodation. Accommodation may be arranged within the institute's hostels/guest house on a payment basis, subject to availability. A working lunch will be provided during the course of the workshop.

How to apply:

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

https://forms.gle/Qo18E2q8uEzHxXXu7

Participants are required to upload a brief write-up describing the relevance and need for mammalian cell culture techniques in their research work. In addition, a short curriculum vitae (CV) highlighting their academic background and research experience must also be submitted.

Selection Criteria:

Selection will be made based on the write-up submitted by the participants. The number of participants selected will be restricted to a maximum of 20. The list of selected participants will be intimated through email. The selected participants are required to pay the registration fee mentioned above on or before the due date. Candidates will be issued certificates on successful completion of the course.

Important dates:

Last date for application:	16 November 2026
Selection List by E- mail	17 November 2026
Last date for fee payment	20 November 2026

Registration Link:

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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. Ifselected, I agree to abide by the rules and regulations of the FDPand shall attend the course for the entire duration. I also undertake the responsibility of informing the coordinator if I am unable to attend the course.

Date:
Place: **Signature**

SPONSORSHIP CERTIFICATE

Dr. /Mr. /Ms .....……is an employee of our Institute/Organization and is hereby sponsored to participate in the Hands-on Skill Development Workshop on "Fundamentals and Applications of Mammalian Cell Culture Techniques" organized by the Department of Biotechnology in association with the Centre for Teaching and Learning (CTL) during **15th – 19th December 2026**at NIT Warangal.

Signature of Head of Institution (with seal)

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

Registration Link:
https://forms.gle/Qo18E2q8uEzHxXXu7

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

For more enquiries please contact:
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Department of Biotechnology

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