

One Week Faculty Development Programme

Recent Advances in Photonics Devices and Its Applications

14th May - 19th May 2025

Organized by **Electronics & ICT Academy (Hub), NIT Warangal**

in association with

E&ICT Academy (Spoke), Department of Sciences, IIITDM Kurnool, Andhra Pradesh

Sponsored by

Ministry of Electronics and Information Technology (MeitY) Government of India



About FDP

This program focuses on educating faculty and researchers on the latest advancements in photonics, a field crucial for modern communication. It explores various photonic materials and their applications in devices, fiber optic and PCF sensors, nanoscale sensors, plasmonics, and high-power lasers. A key objective is to provide a platform for understanding the potential of these technologies in addressing current communication challenges. Beyond technical education, the program aims to foster collaboration among young researchers, faculty, and scientists. This collaborative environment seeks to create opportunities for future research partnerships and advancements in photonics. Ultimately, the program strives to advance the field of photonics and its applications in various industries.

Topics

- ❖ Semiconductor laser
- ❖ Optic and Light management in solar PV
- ❖ Nano-photonics devices
- ❖ WDM Optical Networks and Fiber optic Networks
- ❖ IR spectroscopy and imaging
- ❖ Photonics packaging.
- ❖ Optics sensors and devices
- ❖ Fiber Optic and PCF Sensors
- ❖ Free Space Optical Networks
- ❖ Photonic Integrated Circuits
- ❖ Fiber Optic Lasers
- ❖ PCF sensors Modeling
- ❖ Biosensor in PCF
- ❖ Quantum Photonics

How to apply

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

<https://forms.gle/HwKQfNabNZ8LrR8p6>

Selection Criteria

Selection will be done on first-come-first-serve basis to a preferable maximum number of 50 (fifty). Candidates will be issued satisfactory certificates on successful completion of the course.

Fee Particulars

Participants need to pay the Registration Fee Online using the following details

Faculty: Rs.2500/-

IndustryParticipants: Rs.7550/-

Online Transfer Details:

Account Name: Electronics & ICT Academy

NITW Account No: 62423775910

IFSC : SBIN0020149

Bank and Branch: State Bank of India,
NIT(REC) Warangal

About NIT Warangal

National Institute of Technology, Warangal, is the first among 17 RECs set up as a joint venture of the Government of India and the state government. Over the years, the college has established itself as a premier Institute imparting technical education of a very high standard, leading to B.Tech degrees in various branches of engineering, M.Tech., and Ph.D. programs in various specializations. All B. Tech and M. Tech programs of NIT Warangal are NBA accredited..

About IIITDM Kurnool

Indian Institute of Information Technology Design & Manufacturing, Kurnool (IIITDMK) was announced in 2014 after receiving the assent of the President of India to the Institutes of Information Technology Act, 2014. IIITDM Kurnool is fully funded by the Ministry of Education. IIITDM Kurnool was accorded the status of Institute of National Importance. The campus was inaugurated by Hon'ble Prime Minister on 20th February 2024. The institute is offering B.Tech in CSE, AI&DS, ECE, ME, M.Tech in 6 specializations in Engineering, and Ph.D. IIITDM Kurnool students bagged AIR 29 and 42 in GATE 2024.

The Department of Sciences contains two divisions namely Mathematics and Physics. It offers basic core Mathematics and Physics courses for B. Tech Programmes. Besides, the Department of Sciences also offers Ph.D. Programmes in Mathematics, Physics. Currently, the department consists of five Physics, four mathematics, and one English. The department has a well-established laboratory for B. Tech students and Ph.D. students. Department focus on the Research Areas of Mathematical Control Theory and its applications, Inverse problems, Computational Condensed Matter, Nano photonics, Thin Film Technology, Solar Energy Materials, Waste Water Treatment, Photonics and Fiber Optic Sensors.

Resource Persons

- Prof. Sourabh Roy, NIT Warangal
- Dr. Nithyanandan Kanagaraj, IIT Hyderabad
- Dr. Y. Ashok Kumar Reddy , IIITDM Kancheepuram
- Dr. Saidi Reddy Parne, NIT Goa
- Dr T Pandiyarajan, IIITDM Kurnool
- Dr. Vijayakumar Devarakonda, IIITDM Kurnool
- Dr P Kishore, IIITDM Kurnool
- Dr. Amaranatha Reddy, IIITDM Kurnool

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Important Dates

Last date of online registration	9.05.2025
Selection list by email	10.05.2025
Duration of the FDP	14.05.2025 to 19.05.2025

Coordinator

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