



ON LINE FACULTY DEVELOPMENT PROGRAMME (FDP) ON POWER SYSTEMS AND CHALLENGES: AI & ML APPLICATIONS TO RESOLVE

(21st April -01st May 2025)

Organized by

Electronics & ICT Academy (Hub), NIT Warangal

in association with

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

&

AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY (A)

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to JNTU-GV., Vizianagaram)

NAAC "A+" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist)-531162.

Sponsored by

Ministry of Electronics and Information Technology (MeitY), GoI



About FDP

"POWER SYSTEMS AND CHALLENGES: AI & ML APPLICATIONS TO RESOLVE" aims to provide faculty members with a comprehensive Understanding of Grid Reliability and Stability, Integration of Renewable Energy, Energy Storage and Load Balancing, Decentralization and Micro grids, Energy Efficiency, Cyber security and Data Protection, Demand Response and Consumer Behavior, Fault Detection and Preventive Maintenance, Energy Market Optimization, Climate Change and Environmental Impact and related fields. The FDP is tailored for educators, researchers and Industry Professionals in Electrical, Electronics, Mechanical, Computer Science and related fields.

Major Course Content:

- ❖ Introduction to Power Systems and Challenges
- ❖ AI and ML Applications in Power Generation
- ❖ AI and ML Applications in Power Transmission and Distribution
- ❖ AI and ML Applications in Power Consumption and Demand Response
- ❖ Case Studies, Challenges, and Future Directions
- ❖ Cyber security and Data Protection
- ❖ Fault Detection and Preventive Maintenance

Experts

The program will be conducted by the faculty members from IIITDM Kurnool, Academicians in the concerned field from IITs/NITs/IIITs/CFTIs/ reputed institutes are invited to deliver lectures in the program. Speakers from industries are also expected to deliver as part of the course.

Fee Particulars

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

Faculty	Rs.750/-
Industry Participants	Rs.2250/-

Online Transfer Details

Account Name: **Electronics & ICT Academy NITW**

Account No **62423775910**

IFSC **:SBIN0020149**

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

How to apply:

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

<https://docs.google.com/forms/d/e/1FAIpQLSeC6VRFQGG4hp3HOFBC9eIdIrfDZjtsLNbogOWHBulR6On6LQ/vi ewform?usp=header>

Selection Criteria:

Selection will be done based 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.

Important Dates:

Last date(Application)	14.04.2025
Selection List by E-mail	16.04.2025
Duration	21.04.2025 to 01.05.2025

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 President of India to the Institutes of Information Technology Act, 2014. IIITDM Kurnool is fully funded by 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 specialization in Engineering and Ph.D. IIITDM Kurnool students bagged AIR 29 and 42 in GATE2024.

About Avanthi Institute of Engineering and Technology

Avanti Institute of Engineering and Technology was established in 2005 with the approval of AICTE, New Delhi and recognized by Government of Andhra Pradesh. The Institution is permanently affiliated to JNTU-GV, Vizianagaram. Avanthi has been accredited by NAAC with Grade 'A+' under Tier-II. The College is well equipped with state of art Laboratories and Computer Centers. Students of Avanthi boast of their excellent academic performance both at University level and GATE with an enviable record of results. Our students achieve heights of excellence by getting a way of admission in prestigious institutions like IITs & NITs.

Coordinators

Dr. R. Sasidhar Associate Professor & HoD, Avanthi Institute of Engineering and Technology, (A), Tagarapuvalasa, Vizianagaram Dist.-531162 mailsasidhar@gmail.com Ph.No: 9866035095	Dr. KV Eswaramoorthy Assistant Professor, Department of Electronics and Communication Engineering, IIITDM, Kurnool, Andhra Pradesh-518008. Email:eswaramoorthykv@iitk.c.in Ph.No: 9342295475
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