

About the Faculty Development Program:

A Faculty Development Programme (FDP) or a research project focused on **Multi-level Inverter (MLI) fed Multi-phase Electric Motor Drives** for Electric Vehicle Applications aims to cover advanced power electronics for high-power, high-performance, and reliable industrial applications, particularly for electric vehicles (EVs) and renewable energy systems.

Major Course Contents:

- **Multi-level Inverter Topologies.**
 - Recent Developments and study of Power Electronic converters and Multiphase inverters.
- **Multi-phase Motor Drives.**
 - Machine modelling for the application of Multiphase Electric drives.
- **Control Techniques and Modulation Strategies.**
 - Field oriented control/direct torque control/ predictive torque control schemes for Multiphase induction motor and PMSM drives.
- **Implementation and Simulation.**
 - Implementation of vector control schemes for Multiphase motor drive and its real time demonstration using real-time dSPACE platform.
- **Application of various Multiphase Electric Motor drives for Electric Vehicles**

This FDP is designed to address applications of multi-phase electric motor drives & power electronics in the industry and to encourage various zonal professionals /research scholars/ academicians towards research and for their Academic Quality Improvement too. This course will offer a unique opportunity to all colonize in the relevant topics in Electric Motor Drives & Power Electronics applications to come closer through

theoretical sessions and laboratory-based experiments/ demonstrations.

About the Institute:

National Institute of Technology Andhra Pradesh established in the year 2015 is an Institute of National Eminence and is the Youngest (31st) institution among the chain of NITs started by the Government of India under the aegis of Ministry of Education. Currently the Institute is offering B.Tech., M.Tech. and Ph.D. programmes. The campus has all the required infrastructural facilities and amenities for the comfortable stay and successful career of its students.

How to reach the institute:

The permanent campus was established in 172.6 acres of land adjacent to Chennai-Kolkata Highway (NH-16) in the historical air-strip lands of Tadepalligudem. The Institute has started its full operations in the permanent campus from January 2020. The campus is extremely well connected by road, by rail and by air. The Vijayawada Airport is 110 km away while Rajamahendravaram Airport is 50 km away from the campus.

About the Department:

The department is one of the pioneering departments of the Institute. The department has highly qualified faculty members engaged in teaching and research with the aim of achieving excellence in the field of Electrical Engineering.

The department offers UG course in Electrical Engineering and PG programme in Power Electronics & Drives. The department is offering Ph.D. programme to promote research activities in the various areas of Electrical Engineering. The consultancy and testing services are also rendered by the department.

**ANRF, Govt. of India sponsored
A One Day Faculty Development Program (FDP)**

on

Multi-level Inverter fed Multi-phase Electric Motor Drives for Electric Vehicle Applications

(9th February 2026)

Chief Patron

Prof. N V Ramana Rao

Director (I/c), NIT Andhra Pradesh

Patron

Prof. G. Ravi Kiran Sastry

Dean, Research & Consultancy

Coordinator:

Dr. Tejavathu Ramesh

Assistant Professor, DEEN

Convener:

Dr. Sri Phani Krishna Karri

Assistant Professor & Head, DEEN



Organized by:

**Department of Electrical Engineering
National Institute of Technology Andhra Pradesh
Tadepalligudem, Andhra Pradesh-534101, India.**

Who can apply?

- Research/ PG Scholars.
- Faculty members/ Academicians.
- Industrial Professionals/ Delegates.

Registration Fee Particulars: NIL

Registration and General Information:

A filled in form of application in the prescribed format duly signed and sponsored by appropriate authorities should reach the coordinator by e-mail only. It is mandatory to send scanned application form through e-mail to tramesh.ee@nitandhra.ac.in as selection will be intimated only through email.

Last date of : 5th February, reaching application

Intimation to : 6th February, 2026

Limited seats are available in this course. The participants would NOT be paid any TA/DA. The program will be conducted by the faculty members from NIT Andhra Pradesh.

Selection Criteria:

Selection will be made on first-come-first-serve basis to a maximum number of 15 No's. The list of selected participants will be intimated through e-mail. Candidates will be issued satisfactory certificates on successful completion of the course.

Lodging and Boarding:

The working lunch and refreshments will be provided by the institute for free of cost. However, accommodation may be arranged on payment

basis based on availability in the Institute Guest House / Hostel.

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Registration Form

Name :

Gender :

DOB :

Age :

Qualification :

Experience :

In Industry :

In Academics :

Present :

Designation :

Present Organization & Address :

Mobile No. :

mail :

Have you been sponsored for this FDP? : Yes / No

If yes, Address of Sponsoring Authority:

Signature of the applicant with date :

Address for Communication:

Dr. TEJAVATHU RAMESH

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