



# Electronics & ICT Academy

National Institute of Technology Warangal, India

## Recent Trends in Power Electronics Applications in Smart Grid, Electric Vehicles and Renewable Energy @ Pragati Engineering College (Autonomous), Surampalem





## Participants Information ([plistrtpepragati.php](http://plistrtpepragati.php))

Participants: **42**  
 Speakers: **06**  
 Female participants: **07**  
 Male participants: **35**  
 Participants from SC/ST category: **03**  
 Research Scholars: **None**

## Topics Covered

- Introduction to Power Electronics
- Power Electronics converters for renewable energy systems
- Power Electronics converters for Electrical Vehicles
- Recent trends in Power electronics
- Recent Trends in Power Converters
- Power Quality
- Electric Vehicles and Smart Urban Transportation
- Active Power Filters

## Highlights

### List of Speakers

**Prof. S. Srinivasa Rao**, Professor & Head, NIT Warangal

**Dr. D. Sreenivasa Rao**, Assistant Professor, NIT Warangal

**Dr. G. Siva Kumar**, Assistant Professor, NIT Warangal

**Dr. K. V. Eswara Murthy**, IIITDM Kurnool

**Prof. V. T. Somasekhar**, Professor, NIT Warangal

**Dr. K. Siva Kumar**, Associate Professor, IIT Hyderabad

### Feedback Summary

- All the resource persons were highly Knowledgeable.
- All the sessions were very interactive.

### Suggestions from Participants

- Required more hands on sessions.

- Energy Management in Distributed Systems
- Control of grid connected Power Electronic System with Real-time Controllers
- Simulation on signal conditioning
- Basic understanding of Components I & II
- Energy storage systems for electric vehicles
- Introduction of EMI-EMC
- Practical Driver design for BLDC motor
- Space Vector modulation of 3-phase invertors
- Induction Motor Drives
- Open end Winding Induction Motor Drives
- PMSM & BLDC drives
- Power Electronics Applications in Smart Grid
- Application in Smart Grid
- Energy storage systems and Micro-grids

- Require more seminars or lectures from other interdisciplinary subjects.

- Faculty development programs should be conducted in semester breaks to be reachable to maximum number of faculty.

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING  
SIX - DAY FACULTY DEVELOPMENT PROGRAMME (FDP)  
ON  
Recent Trends in Power Electronics  
Applications in Smart Grid, Electric Vehicles and  
Renewable Energy

association with