



IEEE POWER ELECTRONICS SOCIETY SPONSORED Ph.D. SUMMER SCHOOL 2026

On

“WIDE BAND GAP DEVICES AND APPLICATIONS FOR POWER ELECTRONICS SYSTEMS”

27 – 31 JULY 2026

Organized by

DEPARTMENT OF ENERGY AND ENVIRONMENT

AND

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING



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PATRONS

Chairman
Ar. Dr. Amogh Kumar Gupta

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(Research & Consultancy)
Dr. M. Premalatha

Head of the Department
(Department of Energy
and Environment)
Dr. Muthukumar K

Head of Department
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COURSE COORDINATORS

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HIGHLIGHTS / INSIGHTS

- ✓ Expert lectures from renowned speakers from Academia, Industry & Abroad
- ✓ Hands-on sessions on Wide Band Gap Device applications
- ✓ PCB design, testing and thermal simulation of power devices
- ✓ Establishing reliable feedback mechanisms (signal conditioning circuits) for power converters
- ✓ 20 minutes research Presentations by Ph.D. scholars followed by 10 minutes Q&A
- ✓ Awards for outstanding research presentations
- ✓ IEEE Women in Engineering (WIE) special sessions
- ✓ Certificate for all successful participants

DISTINGUISHED SPEAKERS & GUEST LECTURERS



Prof. Akshay Kumar Rathore
IEEE FELLOW
Professor
National University of
Singapore, Singapore

Academic speakers

Prof. Bhim Singh, Professor, Dept. of Electrical Engineering, IIT Delhi
Prof. Brij N Singh, John Deere Inc, USA
Dr. Sumit Pramanick, Associate Professor, Dept. of Electrical Engineering, IIT Delhi
Dr. Kaushik Basu, Associate Professor, Dept. of Electrical Engineering, IISC Bengaluru
Dr. Suwendu Samanta, Associate Professor, Dept. of Electrical Engineering, IIT Kanpur
Prof. Sandeep Anand, Professor, Dept. of Electrical Engineering, IIT Bombay

Industry speakers

Dr. Sreekanth Thamballa, Senior power electronics engineer, Sarla Aviation, Bengaluru.
Dr. Gowtham Vegireddy, Manager, Research & Development, IFB Industries Limited, Bengaluru.

WOMEN IN ENGINEERING (WIE) CHAIR



Dr. Sneha Narasimhan
Research Scientist –
Power Electronics
ABB Inc.

REGISTRATION DETAILS

IMPORTANT DATES:

- Application Deadline
10 July 2026
- Selection Notification
15 July 2026

REGISTRATION PROCESS:

- Apply via Google Form
- Screening of Applications
- Selection Email
- Fee Payment
- Registration Confirmed

REGISTRATION FEE DETAILS

IEEE Student
Members:
₹ 3,000
Non-IEEE
Student
Members:
₹ 4,000
Industry
Professionals /
Faculty /
Research &
Teaching Staff:
₹ 9,500

ABOUT THE PH.D. SUMMER SCHOOL 2026

The program will feature lectures by renowned experts from academia, industry, and international institutions, delivering insights into the hardware and software design of power converters using wide band gap devices. The school will also include hands-on sessions on PCB design, testing of power devices, thermal simulation, and reliable feedback mechanisms for power converters. Selected Ph.D. scholars will have an opportunity to present their research work, receive expert feedback, and interact with leading researchers in the field. Certificates will be awarded to all successful participants.

ABOUT THE WOMEN IN ENGINEERING EVENT

IEEE Women in Engineering (WIE) sponsored activities on women empowerment in engineering will be conducted during the Ph.D. Summer School 2026. Special sessions will focus on opportunities for women in power electronics, research funding schemes, career development, and professional growth. Participants will also have opportunities to interact with distinguished women researchers and industry professionals. Outstanding WIE participants will be recognized during the event.

ABOUT NIT TIRUCHIRAPPALLI

National Institute of Technology Tiruchirappalli (NIT Trichy), an Institute of National Importance established in 1964, is one of India's premier technical institutions. Renowned for excellence in education, cutting-edge research, innovation, and industry collaboration, the institute fosters multidisciplinary research through state-of-the-art facilities, Centres of Excellence, and strong global academic and industrial partnerships, addressing societal and technological challenges while nurturing highly skilled engineers, researchers, entrepreneurs, and future technology leaders.



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