



Ph.D. Summer School on “Designing Reliable Control Circuits for Power Converters”

July 19th – July 23th, 2025



Insights:

- Practical sessions on “Designing reliable control circuits for power converters”
- Talks by experts from IITs, Industry & abroad
- 20 minutes presentation by Ph.D. students followed by a 10 minutes Q&A session.

Registration Fee (INR):(excl. GST)

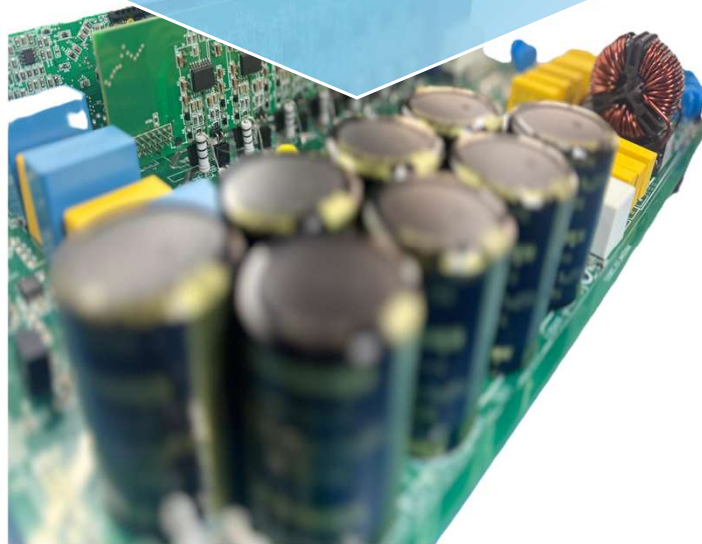
IEEE members: 1500/-

Non-IEEE members: 1800/-

Staff/Industry Professional: 8000/-



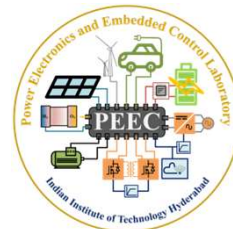
Webpage link: www.ee.iith.ac.in



Organized by



భారతీయ సాంకేతిక విజ్ఞాన సంస్థ హైదరాబాద్
भारतीय प्रौद्योगिकी संस्थान हैदराबाद
Indian Institute of Technology Hyderabad



Chief Organizer



Dr. Rupesh Wandhare,
Associate Professor,
Dept. of Electrical Engineering,
IIT Hyderabad

✉ rupesh@ee.iith.ac.in

About IIT Hyderabad



Indian Institute of Technology Hyderabad (IITH) is a premier institute of science and technology established in 2008. IITH has been consistently ranked in the top 10 institutes in India for Engineering according to NIRF making it one of the most coveted institutes for science and technology in the country. The very foundation of IIT Hyderabad is based on research and innovation. The vibrant research culture is evident from the number of patents and publications that IITH produces consistently every year.

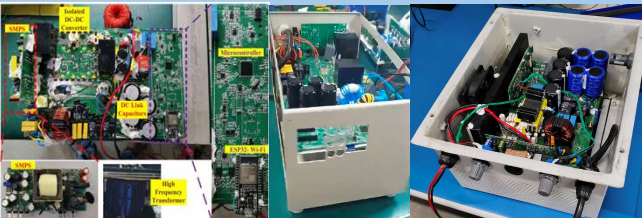
About Department of Electrical Engineering, IITH

The Department of Electrical Engineering (EE) at IIT Hyderabad offers a vibrant environment for undergraduate, post graduate education and research in many areas of Electrical Engineering. We are a team of 38 faculty, 621 students (320 B.Tech, 145 M.Tech and 156 PhD) and 16 staff members engaged in cutting edge research and teaching in several frontier areas of Electrical Engineering.

About PEEC Laboratory

The Power Electronics & Embedded Control (PEEC) Lab, led by Dr. Rupesh Wandhare, is dedicated to advanced research in power conversion and intelligent control systems. The lab focuses on both isolated and non-isolated DC-DC, DC-AC, and AC-DC power converters, catering to a broad spectrum of applications—from consumer electronics and household appliances to microgrids, renewable energy integration, and electric vehicle (EV) charging infrastructure. The lab hosts a vibrant research team comprising 7 Ph.D. scholars, 8 M.Tech. students, 4 B.Tech. students, and 1 Technical Assistant. Between 2019 and 2025, it has achieved 4 Patents, 40+ publications.

A few Pictures of technologies developed by PEEC



About the Ph.D. Summer School 2025

The theme of this year's school is "Designing reliable control circuits for power converters". There will be a series of lectures by renowned speakers from both India and abroad, delivering knowledge on the hardware/software design of control circuits suitable for power converters.

In addition, there will be Hands-On Sessions on the schematic, layout design, testing of modern driver circuits for power devices, and establishing reliable feedback mechanisms (signal conditioning circuits) for power converters. A few sessions will be spared for the selected PhD Scholars in their 3rd/4th year of PhD to present their research work for about 20 minutes, followed by a 10-minute Q&A.

About the Women In Engineering (WIE) event

'Women in Engineering (WIE)' will be conducted during 'PhD school 2025'. Separate special sessions for women participants will be conducted to disseminate information on opportunities for women in power electronics and the various schemes conducted by the Government of India for women scientists. Institute tour and visits to various power electronics laboratories in IIT Hyderabad for women participants. Additional women speakers (experts in the power electronics domain) during IEEE PELS PhD School. Awarding experimental kits to deserving and outperforming woman participants during PhD school (through evaluation).

Application process:

All the interested candidates are required to fill up the application form available link.

Application Link: www.ee.iith.ac.in

Selection:

After receiving all of the applications, we will shortlist students based on the details filled up by them in the application form or online interview (if required).

Registration:

Selected candidates will have to complete final registration by filling up a registration form which will be made available on the website.

Distinguished Guest Lecturer



Prof. Sanjib Kumar Panda,
Dept. of Electrical & Computer
Engineering,
National University of Singapore

Women In Engineering (WIE) Chair



Dr. Shreelakshmi M. P.,
Dept. of Electrical Engineering,
NIT Calicut

Registration Fee Details :

- IEEE student members: 1500+GST(18%) INR
- Non-IEEE student members: 1800+GST(18%) INR
- Research Staff/Industry Professional: 8000+GST(18%) INR

Important Dates:

- Deadline for submission of applications form: **June 20, 2025 (6 pm)**
- Announcement of the selected candidates: **21 June 2025 (6 pm)**
- Deadline for submission of registration fee: **21 June 2025 to 27 June 2023 (6:00 pm)**

Note:

- The registration fee includes attendance to all technical sessions including tea/coffee/snacks breaks and lunches (during July 19 -23, 2025).
- Accommodation for the participants will be arranged in the hostels of IITH with free of cost on sharing basis.

Account Details:

Beneficiary Name:

Bank Name:

Branch:

IFSC Code:

Account No: