



Department of Electrical and Electronics Engineering National Institute of Technology Karnataka, Surathkal

Call for Research Internship

Supported by SERB, Accelerate Vigyan (Vritika) Scheme

Project Title: Control Techniques for Switched Mode Power Converters

About VRITIKA

'VRITIKA' is the call for initiation and practice in science through Training and Skill Internship. This program aims to provide opportunities to promising PG students from universities and colleges to get exposure and research skill development experience. These internships will primarily be facilitated by organizations / institutions / laboratories of national importance such as IITs, IISc, IISERs, NITs, CSIR, ICAR, ICMR etc. For more details visit the following links: <https://acceleratevigyan.gov.in/programs/abhyas/vritika> & <http://serb.gov.in/abhyaas.php>

Scope of the Internship

Switched mode power converters play vital role in efficient processing and control of electric power for applications ranging from sub-milliwatt on-chip power management to hundreds of kilowatt and megawatt power levels in motor drives and utility applications. It is important to understand the control algorithms employed for the operation of switched mode power converters and devising a control technique is inherent to switched mode power converters design and development process. This intern program would disseminate the knowledge on control methods widely employed in switched mode converters. Addition to this, participants will be exposed to hardware implementation of the various control techniques in analog/digital platform.

Who can Apply?

Regular M.E/M.Tech and 4th year UG students pursuing their degree in the area of Electrical and Electronics Engineering /other relevant specialization from any recognized University/Institute/college in India.

Important Dates

- ❖ Duration – 20th March 2024 - 17th April 2024
- ❖ Number of Interns Required – 05
- ❖ Last date for registration: 14th March 2024
- ❖ Intimation of selected students: 18th March 2024

Registration Process:

The candidate has to obtain the no objection certificate (NOC) from the Head of the Department / Institute in the prescribed format. ([Click here for NOC](#)) . The candidate has to fill in his/her details and upload NOC in the google form in below link. <https://forms.gle/k8uvGVVJ3Vi6hxxG7>

Selection process:

The registered candidates shall be called for an online interview. The selection for internship program will be based on their performance in interview and academic track records.

Details of Internship

- ❖ The interns will be provided with accommodation and food during their stay at NITK Surathkal.
- ❖ The interns will be eligible for Travelling Allowance (TA) reimbursement for their journey to NITK Surathkal from their hometown/home institute, both ways, as per GOI norms. (Shortest route in Economic Sleeper Class Train/Bus Fare)
- ❖ No stipend will be provided for the internship.
- ❖ The supervisor to whom the interns are attached would be assigning them tasks, on which, the intern should work and prepare a report to be submitted.
- ❖ Certificate will be provided on successful completion of this training and internship.

Event Organizer

Dr. V. Vignesh Kumar, Assistant Professor
Department of Electrical and Electronics Engineering
National Institute of Technology Karnataka, Surathkal
Mangalore, Karnataka – 575025.

Email: v.vigneshkumar@nitk.edu.in

Contact No.: 73588 95065