



Module PMRF-ISSS061/2022

Fundamentals of Power Electronics and PCB Design

Name of the PMRF student

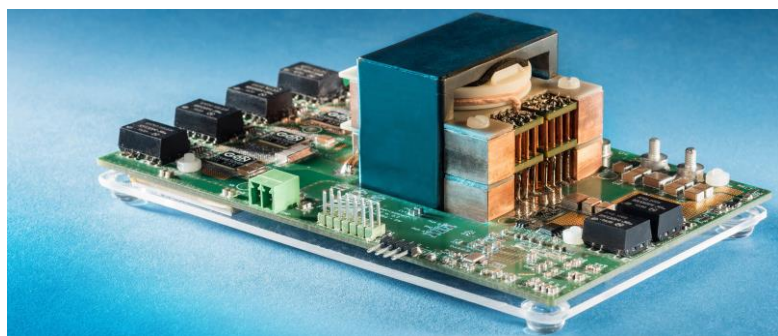
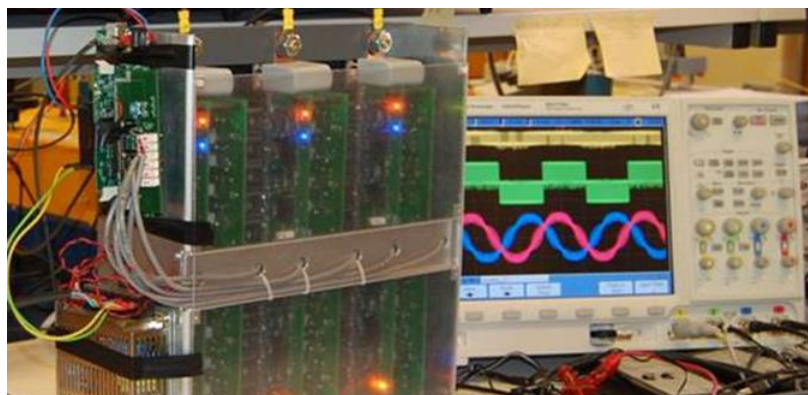
Ashwin K

Required background of the students taught

Any discipline of engineering with minimum knowledge in basic concepts of electrical circuits and networks.

Online session coordinator

Will be chosen from the list of registrants



Details of the content of the module

Part 1 – Fundamentals of Power Electronics

- Basic power switches and its characteristics
- AC –DC Power Rectifier
- DC-DC Power Converters and Analysis
- DC-AC Power Conversion
- Pulse Width Modulation
- Tutorial and Numerical Solving

Part 2 – PCB Design using KiCAD

- Introduction to KiCAD software
- Schematic Editor
- Creating new symbols and footprints
- PCB layout guidelines and routing
- Gerber file generation

Schedule of the module

Class Schedule – Tuesday and Thursday

Class Timings – 5.30 PM to 6.30 PM

First Class - February 6th, Tuesday



Meeting link : Will be shared later

[Link](#)

Contact email ID: issf.forum@gmail.com

Registration link: Scan the

QR Code