



Module PMRF- PMRF-ISSS135/VI/2024

## Power semiconductor devices

### Name of the PMRF student

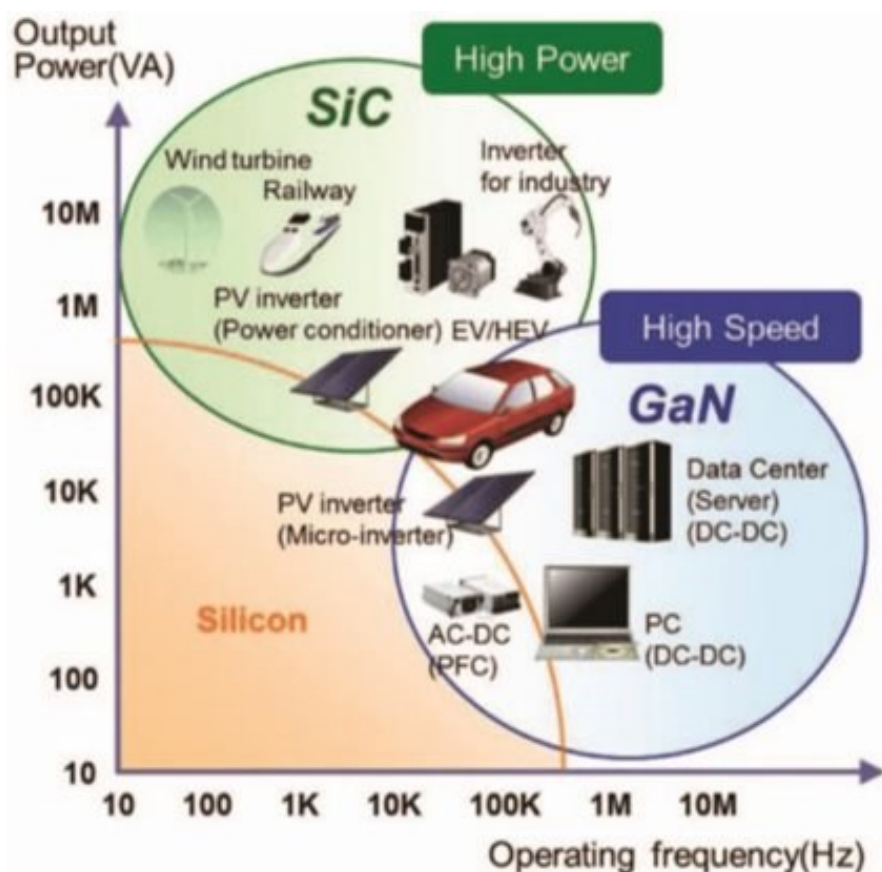
Mehak Ashraf Mir

### Required background of the students taught

Graduate course: EE,  
ECE, Physics and other related  
departments

### Online session coordinator

Will be chosen from the list of registrants



### Schedule of the module

Start Date: 18<sup>TH</sup> August 2024

Tentative End Date: 3<sup>rd</sup> Nov 2024

Day: Recorded Lectures will be uploaded  
every Sunday.

Time: 7 PM – 8 PM IST

### Details of the content of the module

Week 1-2: Introduction to power converters- brief overview

Week 2-3 : ideal and typical power device characteristics

Week 4-5: device breakdown-  
Avalanche and punch through

Week 5-7: Schottky rectifiers

Week 8-9: P-i-n rectifiers

Week 10-11: Power MOSFETs

### Meeting link

Link

Contact email ID: [iss.s.forum@gmail.com](mailto:iss.s.forum@gmail.com)

Registration link:

<https://forms.gle/c8E64ZCsfxEYxw5Y9>