



Module PMRF- PMRF-ISSS017/II/2024

Circuit reliability of GaN HEMT

Name of the PMRF student

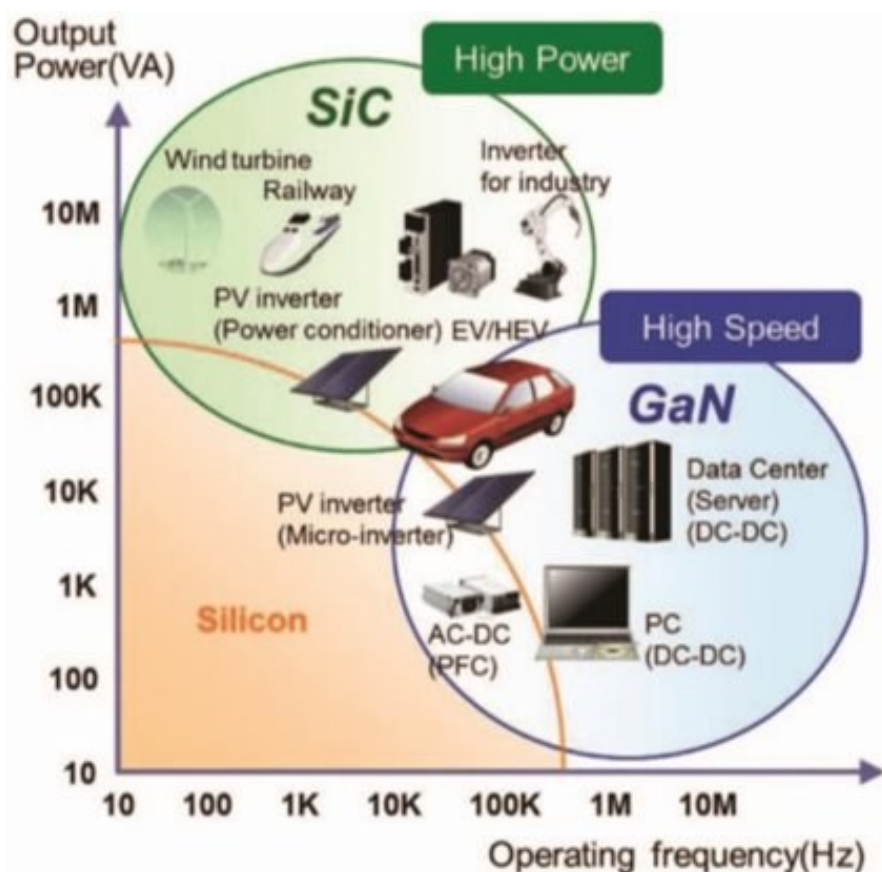
Mehak Ashraf Mir

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: 20TH March 2024

Tentative End Date: 15th May 2024

Day: Recorded Lectures will be uploaded
every Sunday.

Time: 7 PM – 8 PM IST

Details of the content of the module

Week 1: Introduction to power
converters- brief overview

Week 2 : Introduction to GaN HEMT
technology

Week 3: overview of circuit reliability
challenges

Week 4: Short circuit reliability

Week 5: Unclamped inductive
switching

Week 6: Switching induced
degradation

Week 7: Third quadrant operation

Meeting link

Link

Contact email ID: iss.forum@gmail.com

Registration link:

<https://forms.gle/XSRZNcsFa7tQXhrSA>