



PMRF-ISSS047/2022.

Semiconductor Characterization

Name of the PMRF student

Mohammad Ateeb Munshi

Required background of the students taught

Undergraduate course: EE,
ECE, Materials science Engg., Physics
and other related departments

Online session coordinator

Will be chosen from the list of registrants



Details of the content of the module

Week 1: Resistivity

Week 2 : Contact resistance

Week 3: Hall measurements

Week 4: C-V characterization

Week 5: Mosfet Threshold voltage

Week 6&7: Defects characterization (DLTS, DCTS)

Week 8: Oxide and interface trapped charge

Week 9 & 10: Optical characterization (Raman, PL,
EL ,Ellipsometry).

Week 11 and 12: Material characterization (AFM,
SEM, TEM)

Week 13 Failure Analysis.

Schedule of the module

Start Date: 15 september 2023

Tentative End Date: 30 October2023

Day: Lectures will be uploaded every
Saturday.

Time: 6 PM – 7 PM IST

Meeting link

Link

Contact email ID: issf.forum@gmail.com

Registration link:

<https://forms.gle/q6s38qTXbR1bTzb1A>