



# Online Winter Faculty Development Programme Semiconductor Fabrication & Packaging Technology

January 20 - 31, 2025 : Online live streaming

Jointly Organized by

IIT Roorkee



IIITDM Jabalpur



MNIT Jaipur



NIT Patna



IIT Guwahati



## Schedule and Course Contents

[January 20 - 31, 2025, 16:00 to 20:00 hours]

- Semiconductor fabrication- The process of manufacturing semiconductor devices, such as integrated circuits (ICs)
- CMOS Fabrication
- Crystal Growth & Cleaning
- Thermal Oxidation & Backend Technology
- Lithography & etching
- Diffusion & Ion Implantation
- Deposition & Etching ( PVD, CVD, PECVD )
- Semiconductor bonding & packaging & testing- The process of protecting semiconductor devices and connecting them to the external environment
- Assembly and packaging
- Materials used in semiconductor packaging, such as ceramic and plastic
- Wire bonding or flip-chip bonding techniques used to connect components
- Testing the packaged device to ensure it meets performance specifications

### Coordinators

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### RESOURCE PERSONS

- Prof. Sanjeev Manhas, IIT Roorkee
- Prof. Tanmoy Pramanik, IIT Roorkee
- Prof. Brijesh Kumar, IIT Roorkee
- Prof. Arnab Datta, IIT Roorkee
- Prof. Pradeep Dixit, IIT Bombay
- Dr. Navab Singh, Director MEMS, Institute of Microelectronics, Singapore

## Registration Details

**Registration link** – Please fill in the registration form using the following link:

<https://forms.gle/WJ8vrckgp4V2ZeEv6>

**Registration fee: INR 500/-**

**Last Date for Registration: January 17, 2025**

**Online payment details:**

- **Internet banking**

Beneficiary Name: PDPM IIITDM Jabalpur

Bank Name: INDIAN BANK

A/C No. : 50018692852

IFSC Code: IDIB000M694

- **UPI ID: iiitdmj@indianbk**

PDPM IIITDM JABALPUR  
SCAN & PAY



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### Contact Details

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