## Electronics & ICT Academy, PDPM IIITDM Jabalpur



- 3. To support the National Policy on Electronics 2019 (NPE 2019) which envisions positioning India as a global hub for ESDM sector, including MeitY Schemes/policies such as Programme for Semiconductors and Display Fab Ecosystem; India AI; National Programme on AI, Production Linked Incentive Scheme for IT Hardware & Large-Scale Electronics Manufacturing; EMC; SPECS; Chips to System (C2S); etc.
- 4. To promote standardization of FDPs through Joint Faculty Development Programmes.
- To support the vision of the National Education Policy (NEP 2020), which mandates that Indian educators go through at least 50 hours in professional development programmes per year.
  To design, develop & deliver specialized FDPs on
- 6. To design, develop & deliver specialized FDPs on emerging technologies/ niche areas / specialized modules for specific research areas for Faculty in Higher Education Institutions (HEI), besides FDPs on multi-disciplinary areas connected with ICT tools and technologies and other digital hybrid domains, covering a wide spectrum of Engineering. and non-engineering colleges, polytechnics, ITIs, and PGT educators.

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Prof. Saurabh Pandey, IIT Patna
Dr. Rajesh Saha, NIT Silchar
Dr. Menka Yadav, MNIT Jaipur
Dr. Shubham Tayal, Synopys

Note: Other Experts are also from IIT/NIT/IIIT.

## **Programme Modules:**

- Basics of Semiconductor Device Physics
- 4 Advanced CMOS Devices: FinFETs, GAA-FETs, and Nanosheet FETs
- Device Modeling and Simulation using TCAD Tools (Synopsys/Silvaco)
- **4** Metal Oxide and 2D Nanostructures for Sensor Applications
- Sensor Design for Biomedical and Environmental Applications
- ↓ Perovskite and Organic Solar Cells: Physics and Device Design
- Solar Cell Simulation using SCAPS-1D
- ↓ Circuit Design and Implementation using Nanoscale Devices
- **4** Flexible and Printed Electronics: Materials and Applications
- Hybrid Heterostructures and Nanomaterials
- Integration of Semiconductor Devices in IoT and AI Systems
- Research Trends, Challenges, and Funding Opportunities in Semiconductor R&D

Registration Link: https://forms.gle/VJ6AKAhyA1CwKM6S8

Beneficiary Name -PDPM IIITDM Jabalpur Bank Name - INDIAN BANK A/C No. - 50018692852 IFSC Code - IDIB000M694



Certification Fee: Academic (Faculty / Students): ₹ 500/-Industry Professionals / Others: ₹ 1500/-The fee covers course material and certification charges.

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