

Important Dates

Last date for registration: **15-Oct-2020**

Intimation to participants: **16-Oct-2020**

Last date of receiving payment: **15-Oct-2020**

Course dates: **22-Oct-2020 to 26-Oct-2020**

Selection will be as per the eligibility, and on First-Come-First-Served basis.

Registration Fee Details

The participants are requested to register online by using the following link:

<https://forms.gle/PnXxPz8sUiEqrj9x9>

Category	Fees (Including 18% GST)
Faculty/Academicians	Rs. 800
Industry Professionals	Rs. 800
Ph.D. scholars/UG/PG Students	Rs. 500

The registration fee includes soft copy of course materials and e-certificate. The confirmation of participation would be sent through email. The expert lectures will be in online mode.

Last date for Registration is 15 October 2020.

Follow the procedures for payment in SBI Collect:

<https://www.onlinesbi.com/sbicollect/icollecthome.htm>

1. Click the above link & Tick Check Box --> Proceed
2. State of Corporate/Institution --> Tamil Nadu
3. Type of Corporate/Institution --> Educational Institutions
4. Educational Institutions Name --> IIITDM - EDUCATIONAL EVENTS
5. Select Payment Category --> "ROSMD-2020"
6. Fill The Details --> Make Payment

About Institutes

IIITDM Kancheepuram is a Centre of Excellence for technical education and research established in 2007 by the Ministry of Human Resource Development, Government of India to pursue design and manufacturing oriented engineering education with research leading to promote the competitive advantage of Indian products in global markets.

SRMIST is a deemed university located in Kattankulathur, Chennai. It was founded in 1985 as SRM Engineering College under University of Madras. The institute gained deemed status during the 2003-2004 academic year.

About Departments

The Department of ECE at IIITDM Kancheepuram is presently offering B.Tech program in Electronics and Communication Engineering (Design & Manufacturing), Dual Degree program leading to B.Tech and M.Tech Degrees, Ph.D. program in core and applied areas of engineering. The faculty members of the department are also involved in sponsored and consultancy research projects from reputed industries and government organizations.

The Department of ECE of SRMIST Kattankulathur was established in 1991 and offers one UG Program, three PG programs and Doctoral Programs. It received significant research grants from DST under FIST, DRDO, BRNS and ISRO. And, also the department is having various foreign research collaborations in different areas.

Contact Details

Dr. K P Pradhan & Dr. Tejendra Dixit

Department of ECE

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Dr. Soumyaranjan Routray

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IIITDM
KANCHEEPURAM

In association with



SRM
INSTITUTE OF SCIENCE & TECHNOLOGY
— Deemed to be University —

Short Term Course on

Research
Opportunities in
“Semiconductor
Materials and
Devices”
ROSMD-2020

Oct 22, 2020-Oct 26, 2020

Course Coordinators

Dr. K P Pradhan,

Dr. Tejendra Dixit

&

Dr. Soumyaranjan Routray

Jointly Organized by

DEPARTMENT OF ELECTRONIC AND
COMMUNICATION ENGINEERING

of

Indian Institute of Information Technology
Design and Manufacturing, Kancheepuram

&

SRM Institute of Science and Technology,
Chennai

Overview of The Course

Electronic materials are the type of materials which are typically used as core elements in a variety of device applications. New semiconductor materials and devices are the subversive frontier technology emerging among the international research community in recent years and also a propeller for the development of new submicron technology. It brings fundamental changes to the traditional material and devices research mode, aiming to accelerate the research and development of new materials and reduce costs, so as to support the development of electronic information, energy and environmental protection, aerospace, and other industries. India has long been active in the field of semiconductor devices, dating back to famous scientists Sir C. V. Raman & Sir J. C. Bose. Today, India is home to numerous research groups and VLSI foundries that own a sizeable amount of the contribution around the globe. Recently new materials & new technology is adopted to improve the performance of semiconductor devices to achieve a broad range of application.

Atmanirbhar Bharat policy is the voice of country. Many organizations are working tirelessly towards the establishment of indigenous technologies. The course will predominantly focus on the current status and future development of semiconductor materials and devices both in India and world.

Course Content

The aim of this workshop is to provide a clear pathway for new comer as well as existing research community towards innovation in semiconductor materials and devices. It also emphasis on available platform for researchers in India as well in globe, so that more of our big ideas can be transformed into solutions. The workshop will provide an introductory overview of:

- ❑ Research opportunity in Semiconductor material and devices including 2-D materials
- ❑ Nanoscale Device modeling and Simulation
- ❑ Device Fabrication and available platforms in India.
- ❑ New Scope of Research opportunities for researchers.
- ❑ Development in the existing technologies such as VLSI and ULSI Technology
- ❑ Devices such as High frequency Devices, Compound Semiconductor, Optoelectronics, Photovoltaics, Flexible & Organic Electronics, Memristor, etc.

Resource Persons



Prof. Durgamadhhab (Durga) Misra, Professor & Associate Chair for Graduate Program, FELLOW of The Electrochemical Society (ECS), **Fellow of IEEE**, Department of Electrical and Computer Engineering, New Jersey Institute of Technology Newark.



Dr. Samar Saha, Chief Research Scientist, Procpicient Devices Milipitas, CA, USA and Adjunct Faculty, Santa Clara University, CA, USA. He is a **Fellow of IEEE and IET**. He has also served as the President as well as the Junior Past President of IEEE Electron Devices Society (EDS), and is currently IEEE Division I Delegate-elect/Director-elect Candidate 2020.



Dr. Ajay Agarwal is Sr. Principal Scientist, at CSIR Central Electronics Engineering Research Institute, Pilani and Professor at Academy of Scientific & Innovative Research (AcSIR), New Delhi. Earlier, he served Institute of Microelectronics, Singapore. He is SM-IEEE and Life Fellow of IETE, SSI, MSI and IEI. His interests are in Nanotechnologies, MEMS, micro-fluidics and Micro-sensors.



Shri. H S Jatana Group Head, DPG, Semiconductor Laboratory, ISRO, Mohali, India. He is working in CMOS process development and VLSI Design at DSM. Product development for strategic.

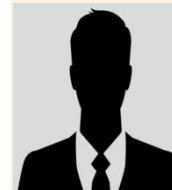


Dr. Subhash Chander, Scientist 'F', Solid State Physics Laboratory (SSPL), Defence Research & Development Organization (DRDO), Ministry of Defence, Lucknow Road, Timarpur. Delhi. His research interest involves AlGaIn/GaN HEMT for high frequency and strategic applications.

Resource Persons



Dr. R S Saxena, Scientist, Solid State Physics Laboratory (SSPL), Defence Research & Development Organization (DRDO), Ministry of Defence, Delhi. His research interest involves IR detectors, III-V semiconductors, optoelectronic devices.



Dr. Sudipta Bhattacharya, Scientist, Research and Innovation Center [A Defence Research and Development Organization Unit], Kanagam Road, Taramani, Chennai, Tamil Nadu. His research interest includes material science in semiconductor device.

Who Can Participate?

The program is targeted towards

- Ph.D. Scholars
- Faculty Members from academic institutes
- Industry professionals and consultants,
- Researchers and UG/PG students

How to Register?

Registration to this course is a two-step process:

Participants will have to first register to the online portal. It is a one-time process. One time Non-refundable fee (as per the category) is to be charged for this service. You are required to apply online using the following steps in the given link:

1. Apply online for registration. Go to: <https://forms.gle/PnXxPz8sUiEqrjoxg>
2. Fill up the registration form.
3. Please make payment prior to start the registration by following the steps provided under Registration Fee Details using SBICollect.
4. Email the payment transaction details to the course coordinator.

The course coordinators will confirm your selection as a participant in due course of time. Once you are selected, you will be informed by email.

NB: No need to send the hard copy application form.

For more details, visit <http://iiitdm.ac.in/>