

Important Dates

Last date for registration: **19-Oct-2021**
Intimation to participants: **20-Oct-2021**
Last date of receiving payment: **19-Oct-2021**
Course dates: **22-Oct-2021 to 26-Oct-2021**
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://bit.ly/rosmd-2021>

Category	Fees (including 18% GST)
Faculty/Academicians	Rs. 944
Industry Professionals	Rs. 944
Ph.D. scholars/UG/PG Students	Rs. 590

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 19 October 2021. 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-2021"
6. Fill The Details: Make Payment

About Institutes

IIITD&M Kancheepuram is a Centre of Excellence for technical education and research established in 2007 by the Ministry of Education, 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, SRMIST Kattankulathur was established in 1991 and offers Undergraduate programs (4 years), Postgraduate programs (2 years), Integrated M.Tech program (5 Years) 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
Indian Institute of Information Technology Design and Manufacturing, Kancheepuram, India -600127.
Dr. Soumyaranjan Routray
Department of ECE,
SRM Institute of Science and Technology,
Kattankulathur, Tamil Nadu-603203.

For Query mail us at ✉ kppradhan@iiitdm.ac.in or contact: ☎ +91-7008325721 (Dr. K P Pradhan)



Workshop on

Research Opportunities in "Semiconductor Materials and Devices" ROSMD-2021

22nd to 26th October 2021

Course Coordinators

Dr. K P Pradhan,
Dr. Tejendra Dixit
&
Dr. Soumyaranjan Routray

Jointly Organized by Dept. of ECE of
Indian Institute of Information
Technology Design and Manufacturing
(IIITD&M), Kancheepuram.
&
SRM Institute of Science and
Technology (SRMIST), 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 sub-micron 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:

- New scope for researchers in Semiconductor material and devices including 2-D materials.
- Nanoscale Device modeling and Simulation with MATLAB, TCAD & Python.
- Device Fabrication and available platforms in India.
- Introduction to advanced technical writing and plotting tools like L^AT_EX & Origin.
- 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. Chennupati Jagadish AC
Professor & Head of Semiconductor Optoelectronics and Nanotechnology Group in the Department of Electronic Materials Engineering, Research School of Physical Sciences and Engineering, the Australian National University.



Prof. Jean-Pierre Raskin
Professor at UCLouvain, Belgium and He is IEEE Fellow, EuMA Associate Member, SEE Senior Member, MRS Member, and EASHLE Member, recipient of the Médaille BLONDEL 2015 a famous French reward.



Prof. Yogesh S. Chauhan
Chair Professor at IIT Kanpur & IEEE Fellow, Editor of IEEE Transactions on Electron Devices, Recipient of VASVIK award for Electrical & Electronic Sciences & Technology.



Prof. Mayank Shrivastava
IEEE Senior Member & Associate Professor at IISC Bangalore, received several national awards and honors of high repute. The first recipients of Indian section of American TR35 award.



Prof. Jawar Singh
Senior IEEE Member & Associate Professor at IIT Patna, an Associate Editor of IET Electronics Letters and IEEE VLSI Circuits and Systems Letters.



Nishant Shukla
Scientist D, Semi-Conductor Laboratory (SCL), Department of Space (DoS), Chandigarh.

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://bit.ly/rosmd-2021>



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/>