

ABOUT DEPARTMENT OF ECE :

The department of ECE at SRMS College of Engg. & Technology offers four years B. Tech & two years M.Tech Program approved by AICTE and affiliated to Dr. A.P.J.A.N. Technical University, Lucknow. Since the inception of the college in 1996, the department of ECE has emphasized on adopting modern teaching-learning methodology, improved skills of students, research activity etc. The department houses a Centre of Excellence in Internet of Things (IoT) to improve the employability skills of the students in specific area. The department also offers various value added courses like PLC, FPGA, C++, MATLAB, LabVIEW etc. to develop expertise of the students in their area of interest to meet out the demand of the industry. The department organizes workshops, seminars and national conference every year on latest trends and emerging technologies to provide a platform of brainstorming sessions for faculty and students by interaction with researchers and industry personnel.

Shri Ram Murti Smarak Institutions Bareilly • Lucknow

- Shri Ram Murti Smarak College of Engineering & Technology, Bareilly
- Shri Ram Murti Smarak Institute of Medical Sciences, Bareilly
- SRMS College of Engineering, Technology & Research, Bareilly
- Shri Ram Murti Smarak Nursing School, Bareilly
- R.R. Cancer Hospital, Bareilly
- Shri Ram Murti Smarak International Business School, Lucknow
- Shri Ram Murti Smarak College of Engineering and Technology, Unnao
- Shri Ram Murti Smarak Institute of Paramedical Sciences, Bareilly
- Shri Ram Murti Smarak Functional Imaging & Medical Centre, Lucknow
- Shri Ram Murti Smarak Hospital, Unnao
- Shri Ram Murti Smarak City Hospital, Bareilly
- Round Table India Ladies Circle India-SRMS Charitable School, Unnao



FACULTY DEVELOPMENT PROGRAMME

Microsystems & Advanced Semiconductor Devices

July 3 - 7, 2018



Organized by :

Department of Electronics & Communication Engineering

Shri Ram Murti Smarak

College of Engineering & Technology, Bareilly

Ram Murti Puram, 13 KM. Bareilly - Nainital Highway, Bareilly - 243 202 (U.P.)

Phone : (0581) 2582246-49, 2582331-32 Fax : (0581) 2582330,

Website : www.srms.ac.in. E-mail: infocetbly@srmscet.edu

Sponsored by

TEQIP III & Dr. A.P.J. Abdul Kalam Technical University,
Lucknow, Uttar Pradesh

Motivator & Guide

Prof. (Dr.) Vinay Kumar Pathak
Honble V.C., Dr. APJAKTU, Lucknow

Resource Persons

Dr. Satyabrata Jit
IIT BHU

Dr. Alok Dutta
IIT Kanpur

Dr. Sudeb Das Gupta
IIT Roorkee

Dr. Santosh Kr. Gupta
MNIT, Allahabad

Mr. Ankur Sengal
CofEL Technologies, New Delhi

Chief Patron

Shri Dev Murti
Chairman, SRMS Trust

Patron

Shri Aditya Murti
Secretary, SRMS Trust

Advisors

Er. Subhash Mehra
Trust Administrator, SRMS Trust

Prof. (Dr.) Prabhakar Gupta
Dean Academics, SRMSCEET, Bareilly

Organizing Committee

Convener

Mrs. Nazia Parveen

Head, Department of ECE, SRMSCEET Bareilly

Mob : 9458702545

Email : nazia.paveen@srmsoai.ac.in

Steering Committee

Mr. Deepak Kumar

Mob : 9458702540

Email : deepak.kumar@srmsoai.edu

Mr. Sovan Mohanty

Mob : 9458702533

Email : mohantysovan@gmail.com

Ms. Ankita Gupta

Mob : 9458702127

Email : ankita.gupta@srmsoai.edu

Mrs. Namrata Gupta

Mob : 9458702510

Email : namrata.gupta@srmsoai.edu

AIM & SCOPE OF THE FDP :

This FDP will provide an unparalleled knowledge gathering initiative for diversified topics of discussion and insights in unraveling the wonders in the field of "Microsystems & Advanced Semiconductor Devices" which also paves way for generations of researchers and scholars in acquiring knowledge and information by meeting face to face with the experts. Discussion on the research results from micro scale semiconductor devices to nanoscale semiconductor devices and their modelling will reduce the gap between the academic and industry approach in setting the new standard.

OVERVIEW:

Device scaling for optimum performance, least power consumption & miniaturization requires the introduction of advanced process module, smart material technology, innovative device architecture and use of alternative devices compared to standard technology. CMOS technology is at its final phase of its life cycle, new materials and device concept needs attention and explorations to optimize the potential even more than Moore's Approach. Going beyond 'Si' with group IV alloys can provide higher efficiency and enable new device concepts in a compatible material system.

This FDP will provided an extensive coverage on the following topics :

- ▶ Semiconductor single crystal growth
- ▶ Nano-materials and devices
- ▶ Polysilicon for Photo-Voltaic applications
- ▶ Patterning challenges for Monolithic Si Photonics
- ▶ Semiconductor Physics & Modeling
- ▶ Microelectronics Technology
- ▶ Wide Bandgap Semiconductor Devices and Circuit Model
- ▶ Beyond CMOS Technology
- ▶ Semiconductor in Microwave Signal Generation and Processing
- ▶ Lab Sessions on Xilinx Vivado

PEDAGOGY:

The sessions of this Faculty Development Program shall be conducted by the team of eminent academicians & industry experts possessing in-depth knowledge in the area of Micro Systems & Advanced Semiconductor Devices . It will consist of a series of lectures and hands-on practical sessions.

ELIGIBLE PARTICIPANTS:

All the faculty members of engineering colleges affiliated to Dr. A.P.J.A.K. Technical University, Lucknow can join this FDP to enhance their skills and expertise in the area.

CERTIFICATION:

The certificate of participation will be provided to all the participants at the end of the program.

ACCOMODATION:

The stay arrangement of outstation participants can be done in campus on nominal charges. The request for accommodation may be made in registration form.

REGISTRATION DETAILS :

- ◆ There is NO FEE for Registration. The registration will be done on first come first serve basis.
- ◆ The participants are requested to register their name by mailing a scanned copy of registration form to the email: srmsoai.fdp.ec2018@gmail.com
- ◆ The registration form can be downloaded from <http://www.srms.ac.in/cet>
- ◆ The confirmation of registration will be done by email.
- ◆ Last Date of Registration: 25th June, 2018.