

**One Day Workshop
On
“MEMS”**

07- Feb- 2015

Department of Electronics and
Communication Engineering,
National Institute of Technology
Silchar, Silchar – 788010, Assam, India.

Registration Form

1. Name:
2. Designation.....
3. Organization:.....
4. Address:
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5. Phone/Mob.....
6. E-mail.....
7. Education Qualifications:.....

Date:

Signature:

You can also register online for the workshop at:

http://www.nits.ac.in/ieee_eds_student_chapter/reg-mems.html

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Director, NIT Silchar

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Dean (R&C), NIT Silchar

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**One Day Workshop
On
“MEMS”**

07-Feb-2015

At

NIT SILCHAR



In Collaboration with
IEEE-EDS Student Branch Chapter
NIT Silchar,
RSF-IIT Guwahati



Organized By:
**Department of Electronics &
Communication Engineering**
National Institute of Technology Silchar
Assam – 788010
www.nits.ac.in/ieee_eds_student_chapter/

About NIT Silchar:

National Institute of Technology (NIT) Silchar (an Institute of National Importance by MHRD, Govt of India), was established in 1967 as Regional Engineering College (REC) Silchar, Assam. In 2002 it was upgraded to NIT from REC. It is situated on the banks of river Barak and on a sprawling campus spread over 600 acres of land on the outskirts of Silchar. It is surrounded by beautiful lakes and hillocks. It offers six undergraduate courses and ten Post-Graduate courses. The department of Electronics & Communication Engineering offers B.Tech, M.Tech (Microelectronics and VLSI Design) and (Communication and Signal Processing Engg.) and PhD degrees. The department is equipped with state-of-art laboratories of VLSI Design, Microwaves, Signal processing, Communication Engg with industry standard simulation tools and Equipments.

About IEEE-EDS Students Chapter:

The IEEE-EDS (Electron Devices Society) Students branch chapter was formed at NIT Silchar in 2013 with eight EDS Members.

Important Dates:

Receipt of Registration Form: **05th Feb. 2015**
Date of Workshop : **07th Feb 2015**

About the Workshop:

Micro systems also known as Micro Electro Mechanical Systems (MEMS) is the integration of mechanical elements, sensors, actuators and electronics on a common silicon substrate through micro fabrication technology. Coupled with the smart materials

and systems technology, Micro systems find applications from aerospace to automobile engineering and from environmental monitoring to biomedical health sciences. In the present era of IC, the combination of mechanical engineering, electronic control and information technologies are penetrating into the field of micro and nano systems. Micro and nano systems promise to revolutionize nearly every product category by bringing together silicon-based microelectronics with micromachining technology, making possible the realization of complete system-on-a-chip. Owing to its numerous applications, simulation of these devices plays an indispensable role in the field. As fabrication techniques are expensive and Micro systems relatively difficult to realize therefore simulation tools are used worldwide for virtual realization and to get optimized parameters.

Topics to be covered:

- ❖ Simulation, Fabrication and Packaging aspects of MEMS devices.

Speakers:

1. Mr. Gaurav Saxena, Research Scholar, IIT Guwahati.
2. Mr. Nagesh Ch, Research Scholar, IIT Guwahati.

Intended Audience/Benefits and Learning Objectives:

Faculty and Students from Academic Institutes, Researchers from R&D Organizations with branches of Electrical Engg and Mechanical Engineering, interested in Semiconductors Devices and Fabrication are encouraged to apply.

Participants will acquire in-depth understanding on MEMS. Design and simulation environment using commercial CAD tools. The participants will be motivated to get new directions to carry out research in MEMS domain.

Registration:

There is no registration fee for the workshop.
Candidates are encouraged to register online for the workshop.

How to Reach NIT Silchar:

There are daily flights from Kolkata, Guwahati, Imphal and Agartala. Silchar is also well connected by road. Buses run every day from Guwahati, Agartala and Imphal and provide day as well as night services. The preferred bus services are Capital, Network, ASTC, Jagannath and Royal Tours and travels. Rail connectivity is discontinued temporarily due to broad gauge conversion of railway tracks.