

About NIT Silchar:

National Institute of Technology Silchar is one of the 31 National Institutes of Technology of India and was established in 1967 as a Regional Engineering College Silchar in Assam. In 2002, it was upgraded to the status of National Institute of Technology and was declared as Institute of National Importance under the National Institutes of Technology Act, 2007. NIT Silchar is a fully residential campus situated on the banks of river Barak and on a sprawling green campus spread over 625 acres of land surrounded by scenic tea gardens on the outskirts of Silchar. NIT Silchar is a teaching and research institute which reflects in the top NIRF ranking. In 2020 NIRF ranking, NIT Silchar scored 9th among all NITs, 46th rank in engineering and 94th in overall category. NIT Silchar has been ranked INTERNATIONALLY FOR THE VERY FIRST TIME by the highly reputed Times Higher Education (THE) World University Ranking 2021 with a rank in the band of 801-1000. 11-25th rank in ATAL ranking of institutions on innovation achievements.

How to reach NIT Silchar:

There are daily flights from Delhi, Kolkata, and Guwahati. Silchar is well connected by road. Buses run every day from Guwahati, Agartala, Meghalaya and Mizoram at Day and Night time. Silchar is connected by train from all parts of the India.

Webinar Sponsored by

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AICTE, Govt. of India

In Collaboration with

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IEEE Nanotechnology Council Chapter,
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“Five-Days Faculty Development Program on “Recent Trends in Bio-MEMS and Medical Micro devices: From Devices to Applications”

20 -24 August-2021



Organized By

Department of Electronics and
Communication Engineering

National Institute of Technology Silchar Assam-
788010, India

*(An Institute of National Importance under MHRD, Govt. of
India)*



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About ECE Department:

The department offers B.Tech in Electronics and Communication Engineering and M.Tech in two specializations (i) Micro-Electronics and VLSI Design & (ii) Communication and Signal Processing Engineering. This department also offers a Ph.D. in Electronics and Communication Engineering. The state of art laboratory facilities exists in the department to train the UG, PG, and Ph.D. scholars to carry research in the frontier research areas of Electronics and Communication Engineering. The faculty members are specialized in diverse fields, and there is a commendable research ambience in the department. Department of Electronics and communication Engineering takes up R & D projects sponsored by various funding agencies such as DST, SERB, BARC, MeitY CSIR, and many more.

About Webinar

This workshop is aimed to bring great minds in Medicine, Industry and Academia together to enlighten and share knowledge to work in interdisciplinary fields. The Medical doctors identifying the flaws in the existing conventional systems they are presently using in hospitals to treat the patients. The academic experts introducing the future trends that are under research to find a solution to medical systems. The participants are expected to bag a lot of information regarding the human body biology and internal working of biological cells for human survival.

Important Dates:

Date of Workshop: 20 to 24 Aug 2021

“Five-Days Faculty Development Program on “Recent Trends in Bio-MEMS and Medical Micro devices: From Devices to Applications”

20 -24 August-2021

Tentative Speakers:

- Padma Shri Prof Ajoy K Ray, Director, JISIASR Kolkata
- Dr. Pratim Sengupta, Sr. Consul. Nephrologist, Kolkata
- Dr. Arindam Dutta, Sr. Consul. Urologist, Kolkata
- Prof. Pasi Kallio, Tampere University, Finland
- Prof. Santanu Bhattacharya, IIT Kanpur
- Dr. Debjani Paul, IIT Bombay
- Prof. Ajay Agarwal, IIT jodhpur
- Dr. Anil Kumar PR, SCTIMST
- Prof. G K Anantha Suresh, IISc Bengaluru
- Dr. R. P. Shukla, University of Twente, Netherlands
- Prof. K Srinivasa Rao, KL University Vijayawada
- Dr. Rajeeb Dey, NIT Silchar
- Dr. Sripad Raja, Intellisense Pvt. Ltd.
- Mr. Ashwin Mecheri, COMSOL Multiphysics

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Topics to be covered:

1. Awareness on Drug induced Nephrotoxicity & its eradication
2. MEMS and Bio-MEMS
3. Electrochemical Microsystems for Personalized Medicine
4. MEMS technology for Medical Equipment
5. Fabrication Aspects of MEMS & Microfluidics
6. Applications and Future Scope of MEMS in Medical Diagnostics
7. Paper fluidic devices for affordable healthcare
8. 3D printed microchips for cell culture
9. Printable energy storage and powering miniaturized devices
10. Microfluidics for Organ-on-Chip applications
11. Hands on Training on MEMS Simulation Tools and Bio-Medical Instruments

[online registration](#)

Steps to join FDP

1. Visit <https://atalacademy.aicte-india.org/signup>
2. Sign up as a participant and complete the process of registration.
3. List of all FDPs will be visible under the workshop tab in your login
4. Using the keys Ctrl F and search keyword “Biomimetics” to get the course details.
5. Click on "+" icon to join the course.

Eligible Participants:

The faculty members of the AICTE approved institutions, research scholars, PG Scholars, participants from Government, Industry (Bureaucrats/Technicians/Participants from Industry etc.) and staff of host institutions.