

**Short Term Course (e-STC)
on
Recent Trends in MEMS
Technology
(RTMT-2023)
11th - 15th December 2023**

An Initiative of
National Institute of Technology Hamirpur
Hamirpur, Himachal Pradesh, India



Organized by
**Department of Electronics &
Communication Engineering**
National Institute of Technology, Hamirpur
(H.P.) 177005
<http://www.nith.ac.in/>

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**Department of Electronics &
Communication Engineering, National
Institute of Technology, Hamirpur**

REGISTRATION PROCESS

The interested participants should register by filling the Google form through the below link:

<https://forms.gle/owgBiviKWpNkBAEA6>

Participants need to attach the receipt of the registration fee while filing the registration form. Instructions for paying the registration fee are given below:

1. <https://www.onlinesbi.sbi/sbicollect/icollecthom.e.htm> 2. Select “Educational Institutions” 3. Select “NIT Hamirpur” in Category 4. Select payment category “Workshop STC FDP Conference” 5. Fill out all the entries and make the payment. 6. Fill the details correctly about the STC and print the receipt.

ELIGIBILITY

This program is open to faculty members, research scholars, PG & UG Students, and industrial personnel.

CERTIFICATION

e-certificate will be issued to the participants after successful submitting the feedback form on completion of the online short-term course.

ABOUT THE INSTITUTION

The National Institute of Technology, Hamirpur is an Institute of National Importance. The Institute offers B.Tech, M.Tech and PhD programmes in various disciplines of Engineering, Humanities and Sciences.

The Institute is functioning in a vast area of above 250 acres at Anu in Hamirpur district of Himachal Pradesh and is 4 Kms from main bus stand of Hamirpur on Mandi-Jalandhar National Highway (NH-70). The city of Hamirpur is well connected with the rest of the country by road.

Nearest Railway Station: UNA (about 85 Km)

Nearest Airport: GAGGAL (Kangra) (about 85 Km)



ABOUT THE DEPARTMENT

The Department of Electronics and Communication Engineering was established in the year 1988. The Department offers B.Tech. (ECE), M.Tech. (VLSI Design), M.Tech. (Communication Systems & Networks), B.Tech. and M.Tech. Dual Degree (ECE) and Ph.D. degrees. The Department has well

experienced and dedicated faculty members with different specializations. We have well equipped laboratories with state-of-the-art facilities.

CALL FOR PARTICIPATION

The National Institute of Technology (NIT), Hamirpur is organizing a Short-Term Course (Online Mode) on Recent Trends in MEMS Technology during 11th -15th December,2023. Distinguished academicians, practitioners, young faculty members, research scholars, and students are invited to participate in this STC. The short-term course will provide an excellent opportunity for participants to become aware of the recent trends in MEMS Design Principles, MEMS Fabrication Techniques, Sensors and Actuators, Bio-MEMS, MEMS integration and Future prospects and career opportunities in MEMS.

OBJECTIVES OF THE SHORT-TERM COURSE (e-STC)

MEMS technology has witnessed significant advancements in recent years, becoming an integral part of various industries such as healthcare, automotive, aerospace, and consumer electronics. As MEMS applications continue to grow, there is a pressing need for skilled professionals who understand the intricacies of MEMS design, fabrication, and applications. Participants will acquire practical skills in MEMS design, fabrication, and testing, making them highly sought-after by employers in industries like healthcare, automotive, and telecommunications.

Participants will have the opportunity to network with experts, researchers, and professionals in the MEMS field, which can lead to collaborations and career opportunities.

Thus, this short-term course in the field of Micro-Electro-Mechanical Systems (MEMS) is designed to provide participants with a focused and condensed introduction to MEMS technology and its applications. A combination of lectures, case studies, will be used to cover following representative topics of interest:

- Overview of MEMS Technology
- Advanced MEMS Fabrication Technologies
- MEMS Sensors and Actuators- Case Studies and Practical Applications
- MEMS Energy Harvesters
- MEMS System Integration and Packaging
- Recent advancements in Bio-MEMS
- MEMS for Communication

RESOURCE PERSONS

Faculty from IITs, NITs, other premier institutions/organizations will deliver the lectures.

REGISTRATION FEE

- a. Rs. 500 for participants from Academia/R&D Labs
- b. Rs. 200 for students
- c. Rs. 1000 for participants from Industry

Last date of Registration: 8th December, 2023