



About NIT Hamirpur

National Institute of Technology Hamirpur (NIT-H) is one of the 31 National Institutes of Technology in India. Established in 1986 as a Regional Engineering College through a joint initiative of the Government of India and the Government of Himachal Pradesh, the Institute has evolved into a premier institution of higher learning. It offers undergraduate, postgraduate, and doctoral programmes in engineering, sciences, and humanities, with a strong focus on academic excellence, research, innovation, industry collaboration, and national development.

About Department of Materials Science and Engineering

The Department of Materials Science and Engineering (formerly the Centre for Materials Science) is recognized for excellence in teaching, research, and innovation. The department offers well-established UG and PG programmes, supported by modern laboratories and experienced faculty. With active research in diverse areas of materials science and engineering, it has established itself as a center of excellence in advanced materials and emerging technologies.

Patron

Prof. H. M. Suryawanshi
Director
National Institute of Technology Hamirpur

Chairman

Dr. Vishal Singh
Head

Department of Materials Science and
Engineering

Convener

Dr. Vishal Singh

Coordinators

Dr. Rita Maurya
Dr. Raj Bahadur Singh

Organizing Committee

All faculty and Staff of
Department of Materials Science and
Engineering
NIT Hamirpur, H. P. India.

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Online Short Term Course (e-STC)

on

Advanced Materials for Energy,
Aerospace and Biomedical Applications

(AMEAB-2026)

19th – 23rd OCT 2026



Organized by

Department of Materials Science and
Engineering,
National Institute of Technology Hamirpur,
Hamirpur, Himachal Pradesh, India – 177 005

About e-Short Term Course

The rapid growth of the energy, aerospace and biomedical sectors demands advanced materials with improved performance, durability, lightweight characteristics, and sustainability. This programme is designed to provide participants with an understanding of modern materials, advanced processing techniques, surface engineering, characterization methods, and processing–structure–property relationships. It will bridge the gap between academic knowledge and industrial requirements, enhance participants' technical and research capabilities, and promote innovation and collaboration for the development of next-generation engineering materials and technologies.

Objectives and Scope

The objective of this course is to provide participants with a comprehensive understanding of advanced materials and their applications in the energy, automotive, and biomedical sectors. The programme will introduce modern materials processing, characterization, and surface engineering techniques used to develop high-performance materials, while highlighting recent innovations and emerging trends that support sustainable technologies and advanced engineering applications.

Topics to be Covered

- ☐ Advanced Materials for Energy Systems
- ☐ Lightweight Materials and Composites for aerospace Applications
- ☐ Advanced Materials for aerospace Applications
- ☐ Biomaterials for Healthcare Applications
- ☐ Materials for Clean Energy Technologies
- ☐ Materials for Energy Storage and Conversion
- ☐ Materials for Biomedical Devices and Implants

Resource Persons/Speakers:

Faculties/Experts from IITs, NITs, CSIR labs and other premier Institutions/Organizations will deliver the lectures.

Targeted Participants:

Faculty from engineering institutes, universities, research scholars, UG/PG students, and other educational institutes and employees of the industries.

Number of Participants:

Number of participants is limited for this workshop. Application will be accepted on *first-cum-first serve basis*.

Important Dates

Last date (Online Registration): 15th Oct 2026
Confirmation by E-mail: 17th Oct 2026
e-STC duration: 19th OCT – 23rd OCT 2026

Certificate

E-Certificate will be provided to those registered participants whose minimum attendance is 75% of the program.

Registration Fee Details

- ❖ Rs. 500 for Academia/R&D Labs
 - ❖ Rs. 200 for Students
 - ❖ Rs. 1000 for participants from Industry
- Registration is compulsory for all the delegates. The registration fee is non-refundable.*

Mode of Fee Payment

Interested candidates are required to pay the registration fee through **SBI Collect** by following the steps below:

- ❖ Visit the **SBI Collect** portal.
- ❖ Select **Educational Institutions** under *Category*.
- ❖ Choose **Himachal Pradesh** under *State*.
- ❖ Select **NIT Hamirpur** under *Educational Institutions*.
- ❖ Choose **Workshop/STC/FDP/Conference** under *Payment Category*.
- ❖ Complete the payment and retain the transaction receipt for future reference.

How to Apply

Generate the payment slip and attach it with the registration form available at the following QR code:

