

**e-Short Term Course (e-STC)  
On**

**Chemistry for Energy, Environment and  
Biomedical Applications (CEEBA-2024)  
17<sup>th</sup> – 21<sup>st</sup> December 2024**

**Registration for e-STC is compulsory  
for all the delegates and the registration  
fee is non-refundable.**

**Academia:** Rs. 500 for Faculty members and  
Rs. 200 for the Postdoc/RA/Research  
Scholars/UG/PG Students. No Registration fee  
for NITH Research Scholars/UG/PG students.

**Industry Persons:** Rs. 2000

**Payment Mode:** SBI Collect

To pay through SBI collect, select Payment  
Google > SBI Collect > Agree > Proceed >  
Himachal Pradesh > Educational Institutions >  
NIT Hamirpur > Payment Category >  
Workshop/ STC/ FDP/Conference

**How to Register**

After making the payment of registration  
fees, all the participant will be mandatorily  
required to fill the Google form on the  
following link to enter their details.

[https://docs.google.com/forms/d/1VyhFdGXAfY8wjpvSIS\\_wVddPSkagxgBegh4tDyrXwM/edit](https://docs.google.com/forms/d/1VyhFdGXAfY8wjpvSIS_wVddPSkagxgBegh4tDyrXwM/edit)

**Patron**

Prof. H.M. Suryawanshi  
Director, NIT Hamirpur

**Chairperson**

Dr. Kalyan S Ghosh  
Head, Department of Chemistry

**Convener**

Dr. Kalyan S Ghosh

**Course Coordinator**

Dr. Jai Prakash

**Treasurer**

Dr. Jai Prakash

*Department of Chemistry  
NIT Hamirpur, HP*



**Organizing Committee**

All Faculty and Staff members of Department  
of Chemistry, NIT Hamirpur

**Contact**

[kalyan@nith.ac.in](mailto:kalyan@nith.ac.in)  
[jaip@nith.ac.in](mailto:jaip@nith.ac.in)

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*An Initiative of*

**National Institute of Technology  
Hamirpur**



**Organized by**

**Department of Chemistry  
National Institute of Technology Hamirpur  
Himachal Pradesh 177005  
Phone: +91-1972-254102  
Web: [www.nith.ac.in](http://www.nith.ac.in)**

### **About the Institute**

National Institute of Technology Hamirpur is one of leading NITs in India and is located at Hamirpur, Himachal Pradesh in a campus with scenic landscape. The Institute offers UG, PG and doctoral courses in different leading fields of engineering, science and humanities fostering the spirit of national integration among the students. The institute has renowned faculty members, excellent infrastructure and laboratories with state of art equipment facilities, which results an active engagement in research, consultancy and developmental activities besides imparting regular teaching.

### **About Department of Chemistry**

Department of Chemistry in NITH came in existence as an independent department in 2009. The department runs M.Sc. and Ph.D. programs in Chemistry. The department is also actively engaged in teaching UG courses to the students of engineering departments. The research activities in the department include interdisciplinary and cutting-edge research areas like chemistry of materials, polymers and composites, synthetic organic and inorganic chemistry, drug design and development, protein biochemistry, nanobiomaterials, photochemistry and photophysics etc.

### **Objectives and Scope**

Chemistry is backbone of all types of materials which are being used for variety of engineering and technological applications. In this context, energy, environment and biomedical engineering sectors are currently growing at a high pace. Therefore, design and development of molecules and materials with exciting physical, chemical or biological properties are of utmost importance. The present course will provide basic understanding and in-depth knowledge on recent developments and advances in above fields with emphasis on their Chemistry. The main objective of this short term course is to educate the young researchers/students about the application of Chemistry in the field of recent technologies associated with energy, environmental and biomedical engineering. This will open up the possibility to explore potential interdisciplinary applications of Chemistry of such materials.

This course will be very beneficial for the students and researchers from both the science and engineering streams because of its interdisciplinary aspects.

### **Last date of Registration:**

**15<sup>th</sup> December, 2024**

### **Confirmation by e-mail:**

**16<sup>th</sup> December, 2024**

### **Topics to be covered**

- Materials in energy applications
- Materials for energy conversion
- Electrochemistry in energy storage
- Biomedical applications as antibiotic, in cancer therapy, wound healing, disease diagnosis etc.
- Fuel cell technology
- Futuristic fuels
- Materials and tools for environmental chemo and biosensing
- Engineering aspects in environmental applications

### **Number of Participants**

Number of participants is limited to 40 for this STC. Applications will be accepted on first-cum-first serve basis.

### **Targeted Participants**

Faculty members, research scholars and PG students from universities, academic/research institutes and colleges as well as employees from industries.

### **Resource Persons/Speakers**

Renowned Faculties/Experts from premier Institutes like IITs, IISER, NITs, CSIR Labs, AIIMS etc. will deliver the lectures.

### **Certification**

Minimum 75% attendance is required to issuing the certificates.