

REGISTRATION FORM

**QIP Short Term Course
on
Advances in Energy and
Functional Materials
Dt: June 14-26, 2021**

Name: _____

Designation: _____

Department: _____

Institute/University: _____

Address for Correspondence:

Educational Qualification: _____

Area of Research: _____

Phone: _____

Mobile: _____

Email: _____

Participant Category (QIP/Sponsored):

Payment Details:

Transaction ID..... Date.....

Transaction Date..... Amount.....

Signature of the Applicant:

**Endorsement of Head of the
Institution/Department:**

Mr./Ms./Dr.

Department.....

Organization/Institute.....

is Permitted to attend

at IIT Bhubaneswar.

Date:

Signature of the Head (Seal):

**Please send your
registration forms to
aefm1@iitbbs.ac.in**



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on
Advances in Energy and
Functional Materials
Dt: June 14-26, 2021**



Organized by
School of School of Minerals
Metallurgical and Materials
Engineering
**INDIAN INSTITUTE OF TECHNOLOGY
BHUBANESWAR**
Jatni, Khordha, Odisha-752050, India

Website: www.iitbbs.ac.in

**Course Coordinators: Dr. Soobhankar Pati
Dr. Srikant Gollapudi
Dr. Amritendu Roy
Dr. Sivaiah Bathula**

Bank Details for Payment

A/C Name: CEP, IIT Bhubaneswar
A/C No.: 24282010001960
IFSC Code: CNRB0017282
Bank Name: Canara Bank, IIT Bhubaneswar

Important Dates

Program: 14th -26th June 2021

Last date of registration: 10th June 2021

Registration Fee

- There is no course fee for the first 30 participants (holding faculty position) from AICTE approved engineering colleges. The selection is on first-come-first-serve basis. Participants must send the endorsement certificate duly signed by the Head of the Department/Institution along with their application form at aefm1@iitbbs.ac.in.
- After the first 30 participants, a participation fee of Rs. 2000 is applicable for the participants (Faculty/ research scholars / students / Scientist). Participants are requested to send online payment receipt along with their application form to aefm1@iitbbs.ac.in

COORDINATOR CONTACT

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Phone: +91-9040009668

School of Minerals, Metallurgical and
Materials Engineering
Indian Institute of Technology Bhubaneswar

About

Indian Institute of Technology Bhubaneswar

Indian Institute of Technology Bhubaneswar (IITBBS) was established on 22nd July, 2008. The Institute strives to offer the best engineering education with unmatched novelties in curriculum. Within a short span of incipience, IITBBS has made rapid strides towards becoming one of the elite technology institute of India spurred by sustained creation of knowledge and innovation, through high quality R&D activities and commitment to holistic education. The Institute aims to develop and pursue dynamic and flexible curricula designed to facilitate creativity and cognitive thinking among students through productive partnership with industries. Students get exposed to a wide variety of activities through societies and clubs, involving liberal arts, design, dramatics, robotics, music, dance and sports, instilling them with social awareness, a spirit of innovation, entrepreneurship and a thirst of discovery.

All academic activities of the Institute are being carried out from the picturesque campus at Argul, in the state of Odisha, India, which has rich historical background. The campus of IITBBS is spreading over 936 acres unique serene and pollution-free academic environment.



About the Course

At this critical juncture of human civilization, limitation in materials properties prevents one from designing novel, efficient energy technology and devices with advanced functionalities. The objective of this course is to provide an advanced understanding of energy and functional materials vis-à-vis their processing and characterization. Further, the course intends to render an insight into the physics and chemistry behind the designing of these materials. The importance of these materials will be discussed with respect to various energy technologies such as nuclear energy, solar energy, fuel cells, batteries, shape memory alloys, functional materials for bio applications, thermoelectrics, piezoelectrics. State-of-the-art problems and challenges will be explained to provide a better appreciation of energy and functional materials and their uses in devices.

- Energy efficient production of energy and functional materials
- Nuclear Materials: Zirconium alloys in the nuclear industry
- Lightweight metals and alloys for automotive applications: Magnesium and Aluminum alloys
- Materials for energy conversion: Solid oxide fuels cells, Piezoelectric energy harvesting, Photovoltaics, Thermoelectrics.
- Materials of energy storage: Hydrogen production and storage, Lithium ion batteries.
- Shape memory alloys and their applications
- Advance functional materials for biological applications.
- Computational approaches in designing energy and functional materials.

Resource persons from IITs, IISc, CSIR labs and labs have been invited to give keynote talks. Program details will be emailed subsequently after registration (by 10th June 2021)