

TOPICS TO BE COVERED

- ◆ Solar photovoltaic technology
- ◆ Energy and Environmental Technologies
- ◆ Energy storage system
- ◆ Novel materials for high-performance batteries
- ◆ Renewable energy
- ◆ Environmental impacts and life cycle assessments of renewable energy technologies and energy storage systems to ensure their sustainability
- ◆ Energy management in Industry
- ◆ Energy analysis in industrial application
- ◆ Sustainable waste to fuel generation
- ◆ Hydrogen production through catalytic processes

RESOURCE PERSONS/SPEAKERS

1. Dr. B C Meikap, Professor, IIT Kharagpur
2. Dr. Ananta Sarkar, Assistant Professor, IIT Kharagpur
3. Dr. Suverna Trivedi, Assistant Professor, IIT Kharagpur
4. Dr. Tarun Kumar Naiya, Associate Professor, ISM Dhanbad
5. Dr. Suman Dutta, Assistant Professor, ISM Dhanbad
6. Dr. Hammad Siddiqui, Assistant Professor, NIT Hamirpur
7. Dr. Mohammad Furquan, Scientific Researcher, King Fahd University of Petroleum and Minerals (KFUPM), Saudi Arabia
8. Dr. Gopinath Halder, Professor, NIT Durgapur
9. Dr. Tushar Kanti Bera, Assistant Professor, NIT Durgapur
10. Dr. Sandip Kumar Lahiri, Associate Professor, NIT Durgapur

REGISTRATION PROCESS

No registration fee is required for this short-term course. Participants who successfully complete the course can opt to receive an e-certificate by paying a nominal fee of Rs. 150.

Link for Registration:

https://docs.google.com/forms/d/e/1FAIpQLScyk9i7rZICcLgd8JY5i3255JcgAApYNjqd hXvIWJnMdqizLA/viewform?usp=sf_link

Bank details for payment:

Account Name : CEP NIT Durgapur
Account Number : 37850318679
Bank Name : SBI
IFSC Code : SBIN0002108

Last date of registration is 30th June, 2024

ADDRESS FOR COMMUNICATION

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A Five Days Short Term Course (STC)
on

Sustainable Power Generation and Advanced Energy Storage System

1st July – 5th July, 2024
(Mode - Hybrid Mode)



Organized by



Department of Chemical Engineering
National Institute of Technology Durgapur
Durgapur – 713209, India

In Association with



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PATRON

Prof. Arvind Choubey
Director, NIT Durgapur

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Chemical Engineering, NIT Durgapur

COORDINATOR

Dr. Manisha Bal
Assistant Professor, Chemical
Engineering, NIT Durgapur

CONVENVER

Dr. Bimal Das
Assistant Professor, Chemical
Engineering NIT Durgapur

ORGANIZING COMMITTEE

- Dr. Abhiram Hens, Assistant Professor, Chemical Engineering, NIT Durgapur
- Dr. Rajib Ghosh Choudhury, Assistant Professor, Chemical Engineering, NIT Durgapur
- Dr. Bikash Kumar Mandal, Assistant Professor, Chemical Engineering, NIT Durgapur

ABOUT NIT DURGAPUR

The National Institute of Technology Durgapur (formerly Regional Engineering College, Durgapur) was established by an Act of Parliament in 1960 as one of the eight such colleges aimed to function as a pace setter for engineering education in the country and to foster national integration. It is conferred as an institute of National importance under ministry of Education, Government of India. NIT Durgapur ranked sixth in all NITs. It is fully funded premier Technological Institution of the Government of India and is administered by an autonomous Board of Governors.

ABOUT THE DEPARTMENT

The Department of Chemical Engineering of National Institute of Technology, Durgapur, was established with active support of UNESCO. The department was built up by a team of dedicated faculty members with the help of a host of visiting professors deputed by UNESCO to NIT Durgapur. Some of the faculty members were trained abroad under UNESCO programme, and a number of equipment and instruments were donated by UNESCO to the department. The B.E. course in Chemical Engineering was started in 1964, and the first batch of students were awarded the degree in 1969. The post-graduate programme with the specialisation 'Production Fertilisers' was introduced in 1968, along with the

doctoral programme in Chemical Engineering. The department has a sanctioned intake of 60 students for the B. Tech programme and 05 students for 5 years dual degree B. Tech Programme per year.

ABOUT THE PROGRAM

This short-term course will offer a comprehensive understanding of the latest technologies and innovations in renewable energy sources along with their environmental impacts and sustainability considerations. Additionally, participants will gain insights into advanced energy storage systems including batteries, supercapacitors, and fuel cells, learning about their efficiency, scalability, and integration with renewable energy sources. Such knowledge empowers participants to contribute effectively to the transition towards a sustainable energy future.

The objective of this STC is designed such that it should be able to lighten the undergraduate, graduate, research scholars, faculty and industrial participants about the latest developments and research aspects in the field of energy storage and energy production system.