A
Five DayShort Term Course

On

Green Hydrogen and Fuel Cell Technology
19–23February 2024

Organized by

Department of Chemical Engineering
Malaviya National Institute of Technology
Jaipur – 302017
India

In Association with

Diamond Jubilee Celebration MNIT Jaipur

IIChE Jaipur Regional Center

PATRON
Prof. N. P. Padhy
Director, MNIT Jaipur

CHAIRMAN
Dr. Sushant Upadhaya
HoD Chemical Engg.

COORDINATORS:
Dr. Neetu Kumari, Assistant Professor
Dr. Hrushikesh M. Gade, Assistant Professor
Dr. U. K. Arun Kumar, Assistant Professor

CONVENVERS:
Dr. Rajeev Dohare, Associate Professor
Dr. Madhu Agarwal,Professor

IMPORTANT NOTE
The number of participants for the workshop is limited to 40. Therefore, the registration is based on first come first basis. Last date of registration is 12thFebruary 2024.

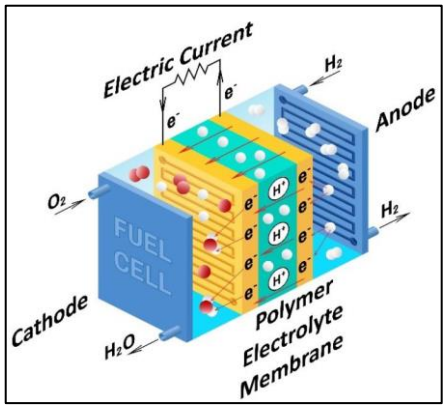
ADDRESS FOR COMMUNICATION
Coordinators:
M:9549650416, 9549650215
Email: neetu.chem@mnit.ac.in
hrushikesh.chem@mnit.ac.in

ABOUT THE DEPARTMENT
The Department of Chemical Engineering commenced in 1988 with 30 undergraduate students in the B. Tech. Chemical Engineering program and has been doing its best to bring about excellence in academics achieved in the last 35 years. PG Programs of M. Tech. in Chemical Engineering and Ph.D. were started in 2006 and 2004, respectively. The current sanctioned strength of the B. Tech. Chemical Engineering Program and M. Tech Chemical Engineering Program are 116 and 15, respectively, for Full-time Courses.

ABOUT MNIT JAIPUR
The Institute was jointly established in 1963 as Malaviya Regional Engineering College Jaipur by the Government of India and the Government of Rajasthan. Subsequently, on 26 June, 2002, the college was given the status of National Institute of Technology. On 15 August 2007, it was recognized as the Institute of National Importance through an Act of Parliament. The Institute is fully funded by the Ministry of Education (Shiksha Mantralaya), Government of India.

ABOUT THE PROGRAM

Fuel Cells have emerged as more efficient devices that converts chemical energy in a fuel into electrical energy. Fuel Cells are superior to other power generating techniques available today. A fuel cell operating on pure hydrogen emits zero emissions at the source and produces water as by product. Some stationary fuel cells use natural gas or hydrocarbons as a hydrogen feedstock, but even these systems produce far fewer emissions than conventional power plants. There are no moving parts in a fuel cell stack, making them more reliable and quieter than generators. Unlike batteries that must be disposed of once their chemicals are used up, fuel cell reactions do not degrade over time and can theoretically provide continuous electricity. Traditional power plants must be large to gain efficiency, but fuel cells can achieve higher efficiencies at any scale, making them perfect for small portable, residential, and transportation uses. The workshop is designed for Undergraduate, Post Graduate, Research Scholars and University Faculty members.



Topics to be covered:

- Green Hydrogen Production Technology: Fundamentals
- Photo-electrolysis/ Water-electrolysis techniques for Hydrogen Production
- Hydrogen Storage
- Introduction to Fuel Cell
- Fundamental and Applications
- Reaction Kinetics
- Cell charge and Mass Transport
- Characterization
- Fuel Processing
- Fuel Cell Stacks: Overview

RESOURCE PERSONS

The lectures will be delivered by faculty members from IITs/NITs, and reputed Institutions.

REGISTRATION FEES (Inclusive of GST)

Participant Type	Registration Fees
UG /PG Students & Research Scholars	Rs.2500
MNIT UG/PG students, & Research Scholars	Rs.1500
Faculty Members	Rs.3500
Industry Persons	Rs.5000

MODE OF PAYMENT

All Payments should be made by demand draft in favor of "Registrar MNIT Jaipur" payable at Jaipur. The registration fee will be nonrefundable.

REGISTRATION FORM

A Five-day Workshop

On

Green Hydrogen and Fuel Cell Technology
19–23 February 2024

Name:_____
Designation: _____
Organization: _____
Telephone: _____
Email: _____

Registration Fee Details:
Amount:_____
Transaction ID: _____
Bank Name:_____

Date Signature

I hereby forward and recommend the above applicant for attending the workshop on **"Green Hydrogen and Fuel Cell Technology, 19-23February 2024".**

Signature of Head of the Institution with seal