Directorate of Technical Education

Maharashtra State, Mumbai

Sponsored

One-Week Faculty Development Programme (FDP)

on

Next-Gen Energy: Electric Vehicles, Hydrogen Fuel Cells and Energy Storage

16th Dec 2024 -20th Dec 2024

Eligibility

Full-time faculty (from any discipline) from AICTE-approved Government/ Government-Aided Engineering Colleges/ Polytechnics/ Research scholars from Government institutions can participate. Eligible applicants will be selected on a first-come-first-served basis.

Registration

Submit the details in Google form, Link below, and upload a scanned copy of the sponsorship letter from the Head of the Institution in the same Google form. Participants can also email a scanned copy of the registration form to the coordinator. No registration Fees.

https://forms.gle/vFsAgEPASS5TxDKG9

Accommodation and TA/DA

The institute may provide accommodation at the institute hostel. If the participant asks, assistance will be provided for identifying outside lodging and boarding facilities.

No TA/DA will be provided by this institute to any participant. Tea and lunch will be provided during the program.

Important Dates

Last Date of Registration	: **10.12.2024**
Selection of Participants	: **12.12.2024**
Commencement of Course	: **16.12.2024**

Patrons

Hon. Dr. Vinod Mohitkar
Director, Directorate of Technical Education, M.S. Mumbai

Hon. Dr. S. S. Bhamre
Joint Director, DTE Mumbai

Hon. Dr. M. B. Daigavane
Joint Director, Directorate of Technical Education, Regional Office, Nagpur

Hon. Dr. Rewatkumar P. Borkar
Principal, Government College of Engineering, Nagpur

Coordinator

Dr. Rajesh S. Surjuse
Associate Professor & Head Electrical
Govt. College of Engineering Nagpur

Co-coordinator

Prof. Praful V. Nandankar
Assistant Professor, Dept. of Electrical Engineering

Advisory Committee

Dr. S. S. Pusadkar, Professor (CAS) & Head Civil
Dr. Latesh Malik, Associate Professor & Head CSE
Dr. S. B. Ingole, Associate Professor & Head Mechanical
Prof. D. S. Chaudhari, Professor & Head ETC
Dr. C.M. Khairnar, Associate Professor (CAS) & Head S&H
Dr. S. W. Rajurkar, Associate Professor & Dean Acad.
Dr. K. M. Tajane, Associate Professor & Dean SWC
Dr. R. D. Raut, Associate Professor & Dean III & P
Dr. P. B. Daigavane, Professor (CAS) & Dean Infra
Dr. S. N. Khante, Associate Professor & Dean R&D

Organising Committee

Dr. S. P. Jolhe, Assistant Professor, Electrical
Prof. Rajani Sahare, Assistant Professor, Electrical
Prof. Neha Khadse, Assistant Professor, Electrical
Mr. Kundan Barai
Mr. Vijay Waghmare
Mr. Anil Bipte
Mr. A. B. Mirase
Mr. Rohit Fulzele

Govt. College of Engineering Nagpur
(An Institute of Govt. of Maharashtra)

organizes,

DTE Sponsored One-week Faculty Development Programme on

Next-Gen Energy: Electric Vehicles, Hydrogen Fuel Cells and Energy Storage

16th Dec 2024 -20th Dec 2024

Address

The Principal
Government College of Engineering, Nagpur
Sector 27, MIHAN Rehabilitation Colony, Khapri (Railway), Nagpur, Maharashtra, INDIA 441108.
Phone:07103-295220, 295211
Mail: principal.gcoenagpur@dtemaharashtra.gov.in
Website: www.gcoen.ac.in

About the Institute

Government College of Engineering Nagpur was started in 2016 with 5 UG & 1 PG Engineering Programmes under the administrative control of the Higher and Technical Education Department, Govt. of Maharashtra. The Institute is affiliated to RTM Nagpur University Nagpur. The institute is spread over a Green Campus of 11.87 acres in New Khapari, MIHAN, Nagpur. Many students have brought laurels to the Institute in various activities. Many students are pursuing higher studies in NITs, IITs, IIMs, renowned Government institutes and outside the country viz. USA, Canada. The institute has been accredited with B++ Grade for 5 years. The government of Maharashtra has granted a Centre of Excellence in "Renewable Energy Utilization and Conservation of Energy" to the Institute. The Institute is also extending services to society through technology transfer under "Unnat Bharat Abhiyan (UBA)". UBA cell of the Institute is also awarded a National award of Rs. 1.75 Lakh

About the Department

The Electrical Engineering Department aims to be a centre of excellence in imparting quality education; catering to the needs of industry and society for the last 4 years, established in 2016-17 with an intake capacity of 60 students in B.Tech. (Electrical Engg.) program. The Department is well-equipped with modern labs and faculty. The Department has successfully organized various STTPs and FDPs. Electrical Engineering Student Association (EESA) has organized various technical, social and professional activities in the last four years.

Introduction

With climate change and our reliance on fossil fuels becoming more pressing, the future of green energy is a subject of great significance and quick development. Electric vehicles (EVs), hydrogen fuel cells, and sophisticated energy storage systems are three technologies that are essential as we move toward a more sustainable future. Innovations in battery technology, such as those involving lithium-ion and newer alternatives, are essential to guarantee a steady and dependable energy source. Our understanding of the problems and opportunities around energy storage technologies, hydrogen fuel cells, and electric cars will shape a sustainable and wealthy world as we explore the future of green energy.

About the Course

The objective of our DTE FDP is to empower engineering faculty with the knowledge and skills necessary to comprehend, educate, and contribute to the evolution of green energy technologies. Through focused sessions, participants will delve into the principles and applications of electric vehicles, hydrogen fuel cells, and energy storage systems. Emphasizing interdisciplinary collaboration, the program will encourage faculty to integrate these concepts seamlessly into their curricula. Hands-on training opportunities will be provided to ensure practical understanding and proficiency. Engaging with industry experts and policymakers will offer insights into market trends and regulatory landscapes, enhancing participants' real-world perspectives. Ultimately, our objective is to nurture a community of educators and researchers equipped to tackle sustainability challenges and drive positive change in the field of sustainable energy

Course Contents

Broad areas to be covered in the Course –

- EV charging infrastructure and technologies
- Battery technologies for EVs
- Fuel cell vehicles: technology and infrastructure
- Battery storage technologies
- Green Hydrogen Economy
- Smart grid technologies and their role in green energy
- Environmental benefits of green energy technologies

Contacts-

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Registration Form

One week FDP on

Next-Gen Energy: Electric Vehicles, Hydrogen Fuel Cells and Energy Storage

16-20 December 2024

Name (in Block letters): _____

_____

Designation: _____

Department: _____

Address: _____

_____

Mobile Number (WhatsApp): _____

Email ID: _____

Educational Qualification: _____

Specialization: _____

Experience: Teaching: _____ Others: _____

_____

I agree to abide by the rules and regulations of FDP and I will attend the FDP for the entire duration.

Place:
Date: Signature of Applicant

This is certified that Mr./Ms./Dr._____
_____ is a regular faculty of the institute. He/ She will be deputed for the said program and upon selection, he/she will be relieved for attending the said FDP.

Date: _____

_____
(Name & Signature)
(Head of the Institute)

Seal of the Institute