



**AICTE-ATAL Sponsored One
week**

**Faculty Development Program (FDP) on
Advances in Hydrogen Fuel Cell
Vehicles: Challenges, Research &
Innovation**

18th -23rd August, 2025

(Online Mode)

Coordinators

Dr. K Chenchi Reddy

Associate Professor, Dept. of EEE

Dr. M. Aruna Bharathi

Professor, Dept. of EEE

Organized by:

Department of Electrical and Electronics
Engineering

**Geethanjali College of Engineering
and Technology (Autonomous)**

Accredited by NAAC with A+ Grade; B.Tech. CSE, EEE,
ECE accredited by NBA

Sy. No: 33 & 34, Cheeryal (V), Keesara (M), Medchal
District, Telangana – 501301

Visit us: <https://gcet.edu.in/>

E-mail: info@gcet.edu.in

About the College: Geethanjali College of Engineering and Technology (GCET) was established in the year 2005 with the sole objective of providing quality technical facilities and modern laboratories. It also has highly competent and dedicated faculty. College has been recognized as an R&D Centre by Scientific and Industrial Research Organization (SIRO). The college offers undergraduate programs in various engineering branches, namely, CE, EEE, ME, ECE, CSE, CSE (AIML), CSE (DS) and CSE (CS), with a total intake of 1440 students. The institution was conferred “Autonomous” status by UGC since the Academic Year 2016-17. The college was accredited by NAAC with Grade ‘A+’ in December 2022. Institution has got ISO certification since 2011. GCET also offers postgraduate program in MBA with an intake of 60 students and M. Tech program in CSE discipline with an intake of 18 students.

About The Department: The Department of Electrical and Electronics Engineering was started in the year 2005 with an intake of 60 students. Right from its inception, it is continuously striving to impart quality education and promoting competitive spirit among students for academic excellence. The EEE department is accredited by NBA two times each under Tier-I and Tier-II. The department has well equipped laboratories with good infrastructure. The well experienced faculty and staff ensure imparting a good culmination of theoretical and practical education. A Centre of Excellence in Electric Vehicle Engineering has been established in the department in collaboration with an industry partner (4We Tech Solutions Pvt. Ltd). A good number of technical papers are presented and published by the faculty and students in National/International conferences and Journals. Department also conducted numerous workshops for the enhancement of the skillset and knowledge of the both faculty and students.

About the Program: This Faculty Development Program (FDP) aims to provide an in-depth understanding of the emerging field of hydrogen fuel cell vehicles (FCVs), which are poised to play a crucial role in achieving sustainable and zero-emission mobility. The program will explore the scientific principles behind hydrogen production, fuel cell technologies, system integration in vehicles, and the challenges associated with their widespread adoption. Through expert lectures, technical sessions, hands-on demonstrations, and simulation workshops, participants will gain both theoretical insights and practical exposure to fuel cell vehicle design, power management, and safety protocols.

Topics to be covered:

- ❖ Introduction to Hydrogen Energy and Fuel Cells
- ❖ Types of Fuel Cells and Applications in Mobility
- ❖ Green Hydrogen Production Technologies
- ❖ Hydrogen Storage, Handling & Safety Standards
- ❖ Material Challenges in Fuel Cell Component
- ❖ Fuel Cell Stack Integration in Vehicles
- ❖ Power electronic converters for future green transportation
- ❖ Modelling Fuel Cell Vehicle in MATLAB /Simulink
- ❖ Recent Research Trends in Hydrogen Mobility
- ❖ National Hydrogen Mission and Policy Frameworks
- ❖ The challenges of technologies for fuel cell and its application on vehicle

Chief Patron

Sri. G.R. Ravinder Reddy Garu, Chairman
Sri. R. Harishchandra Reddy, Vice Chairman

Patron

Dr. S.Udaya Kumar, *Director*

Dr. K Sagar, *Principal*

Convener

Dr. Radhika Dora, *HoD-EEE.*

Coordinators

Dr. K Chenchi Reddy, *Assoc. Prof, EEE*

Dr. M. Aruna Bharathi, *Prof., EEE*

Advisory Committee

Dr. G. Yesuratnam, *Professor in EEE, OU*

K. N. Hemanth Kumar, *Director, E-mobility,
International Copper Association India*

Prof. B. Hari Kumar, *Dean School of Electrical
and Communication Engineering, GCET*

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Mr. J. Lingappa, *Asst. Prof., EEE*

Mr. J. Kishore Babu, *Asst. Prof., EEE*

Ms. B. Srujana, *Asst. Prof., EEE*

Speakers: Eminent personalities from

1. Mr. Sagar Kancharla, Canada
2. Dr. Muhammad Abdelghany, Khalifa University
3. Dr. B Mallikarjuna Reddy, Germany
4. Dr. Bulusu Venkata Sarada, ARCI
5. Dr. R. Balaji, CFCT, ARCI
6. Dr. VSK Murthy Balijepalli,, CEO, LUCES Consulting Limited
7. Dr. Naveen Kumar Marati, Hitachi Energy
8. Mr. A V Ramana Reddy, Mathworks
9. K. R Siddartha, ASCI
10. Dr. M Sushama, JNTUH
11. Dr. Naveen Yalla, IITBHU
12. Dr. D Suresh, NIT Raipur
13. Dr. Madhuri Bayya, BITS Pilani Hyderabad

Participants

This FDP is beneficial for the faculty, entrepreneurs, practicing engineers from industry and research scholars interested in this sector. This will provide a good opportunity for networking and professional development.

Registration Details

All participants are requested to register using the link below.

Registration Link:

<https://atalacademy.aicte-india.org/login>

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on

Advances in Hydrogen Fuel Cell Vehicles: Challenges, Research & Innovation

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Registration Form

Name :

Designation :

Organization :

Address for Communication :

Mobile No :

Email ID :

Signature of the Applicant

For Correspondence:

Dr. K Chenchi Reddy, Associate Prof., Dept. of
EEE, Ph: 8099049452

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