

## About the Programme

As the world transitions toward sustainable energy systems, green hydrogen is emerging as a transformative solution to decarbonize critical sectors and ensure long-term energy security. This FDP aims to equip Academicians / researchers and practicing Engineers with the knowledge and tools needed to innovate in green hydrogen. The program includes expert-led sessions, case studies, and site visits, fostering a strong foundation in hydrogen technologies.

### Course Topics

- Introduction to Hydrogen Economy – Types of Hydrogen, Global and Indian Roadmap
- Production of Green Hydrogen – Electrolysis Technologies and Renewable Energy Integration
- Storage, Transport & Infrastructure – Safety and Hydrogen Hubs in India
- Lab Visit – Observation of Hydrogen Generation, Fuel Cell Systems and Real-time Demos
- Applications & Integration – Hydrogen in Industry, Mobility, and Power
- R&D, Challenges and Way Forward – Research Opportunities, Panel Discussion

## Sponsorship Certificate

Certified \_\_\_\_\_ that  
Mr./Mrs./Ms./Dr./Prof.....  
.....is a regular faculty of  
this institution and he/she is hereby  
sponsored for the 6-day faculty  
development Programme on **“Green  
Hydrogen- A Sustainable Energy Solution”**  
**from June 30<sup>th</sup> to 05<sup>th</sup> July 2025** at College  
of Engineering Trivandrum.

Mr./Mrs./Ms./Dr./Prof.....  
..... has been permitted to attend  
the course during period from **June 30<sup>th</sup> to  
05<sup>th</sup> July 2025**.

Place:

Date:

Signature of  
Head of Department /Institution

[Official seal]

Faculty Development Programme  
On

## **“Green Hydrogen – A Sustainable Energy Solution”**

June 30<sup>th</sup> to July 5<sup>th</sup> 2025

(Six Days)



***Jointly organized by***

Department of Electrical Engineering &  
Department of Mechanical Engineering  
**College of Engineering Trivandrum,**  
**Thiruvananthapuram - 695 016.**



**Sponsored by**  
**Directorate of Technical Education**  
**Government of Kerala**



### Resource persons

The faculty development program sessions will be conducted by academic researchers and industry experts drawn from across the country and foreign universities such as IITs, NITs, ISRO, CSIR, NATPAC, COCHIN SHIPYARD, ANERT and other private sector industries who are the major player in this field across India.

### .Who can apply

Faculty members, Professionals and researchers in various engineering domains, including those affiliated with the government, government-aided or self-financing colleges and polytechnic colleges, research institutes and are encouraged to apply.

### How to apply

All participants kindly apply via the Google Form available at <https://forms.gle/jVpyZ3wDgQsoVVDQ6> by **27-06-2025**. Additionally, attendees are required to present a Sponsorship letter, endorsed by the Head of the Department / Institution, upon arrival for the FDP.



After selection intimation, the faculty members working under DTE Kerala have to apply through TPMS portal of DTE Kerala.

### Fee structure

No course fee for faculty members from government/aided engineering colleges and polytechnic colleges. Faculty members from self-financing institutions and research scholars have to pay a course fee of Rs.1,000/- (which is payable at the time of registration). Participants may remit fee by cash/DD in favor of The Principal, College of Engineering Trivandrum.

### Important Dates

Registration starts **20-06-2025**

Registration ends **27-06-2025**

Intimation of selection **28-06-2025**

**Confirmation of participation via email**

**28-06-2025**

### Coordinators

#### Dr.Lal Priya P S

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### About the Organizing Institute

The College of Engineering Trivandrum (CET), founded in 1939, is a prominent engineering institution in India. CET has a prestigious history of producing globally recognized technocrats. All its undergraduate courses are accredited by the NBA until 2025 and committed to excellence in education, innovation and sustainable development. The Department of Electrical Engineering and Mechanical Engineering are renowned for producing world-class professionals. Right from its inception, the departments have been rated very high in academic circles. provides quality technical education to young minds with a zeal to contribute to the advancement of human knowledge and progress.

### Vision of Institute

National Level Excellence and International Visibility in Every Facet of Engineering Research and Education.

### Mission of Institute

- To facilitate quality transformative education in Engineering and Management.
- To foster innovations in Technology and its application for meeting global challenges.
- To pursue and disseminate Quality Research.
- To equip, enrich and transform students to be Responsible Professionals for better