



PSG Institute of Technology and Applied Research

Neelambur, Coimbatore - 641 062

REPORT

Nature of the event	Faculty Development Programme
Title	Hydrogen Technologies: Synergistic Approach towards Sustainable Energy Solutions
Organizing Body	PSG iTech and The AICTE Training and Learning (ATAL)
Funding Resource	The AICTE Training and Learning (ATAL)
Duration and Dates	06 Days – [07-12 July 2025]
Venue	E6 – Mechanical Seminar Hall, PSG iTech
No. of Resource persons	10
No. of Participants	35 (External and Internal)
Coordinators	Dr. P. Manoj Kumar (Professor) and Dr G Swaminathan (Assistant Professor), Department of Mechanical Engineering, PSG iTech

The AICTE Training and Learning (ATAL) Faculty Development Programme (FDP) on “Hydrogen Technologies: Synergistic Approach towards Sustainable Energy Solutions” was successfully conducted from 07th to 12th July 2025 at PSG Institute of Technology and Applied Research, Coimbatore. This programme focused on equipping participants with multidisciplinary knowledge into hydrogen energy technologies aligned with sustainable development and Net-Zero emission goals.

A total of 49 participants registered, out of which 35 actively attended the programme. The FDP brought together academicians, researchers, industry professionals, and postgraduate/doctoral scholars from various science and engineering domains. The FDP comprised ten technical sessions by experts from reputed institutions and industries, covering topics, such as green hydrogen production, solid-state hydrogen storage, PEM fuel cells, hydrogen embrittlement, and hydrogen's role in power generation. In addition, the programme included:

- ✓ Industrial Visit to PSG Institute of Advanced Studies (PSG IAS) for exposure to material testing and hydrogen-related technologies.
- ✓ Hands-on training was given in the lab to help participants learn through practical experience.
- ✓ Participants gave presentations on selected articles for discussion and knowledge sharing.
- ✓ Journal reflection sessions were conducted to help participants to articulate what they learned.
- ✓ Tests were conducted to check how well the participants understood the topics.
- ✓ Feedback was collected from participants to improve future programmes.



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Sessions also included a talk on emotional well-being to support holistic development. The FDP concluded with a valedictory session after an MCQ-based assessment and reflective journaling activity.



Figure 1. Inaugural session of the ATAL FDP on Hydrogen Technologies, presided over by Dr. T. Sundararajan



Figure 2. Group photo of the attendees and organizers of the ATAL FDP on Hydrogen Technologies.