

Research Scholars, Faculties / Scientists / Engineers

Hydrogen energy and green hydrogen production technologies are rapidly transforming the global energy landscape. Fuel cells and electrolysers are witnessing unprecedented growth worldwide—and India is emerging as a major hub for hydrogen-based research, innovation, and industrial deployment.

For Students and Engineers: Hydrogen and fuel cell industries are creating large-scale employment opportunities across design, manufacturing, testing, safety, and system integration. By building a strong foundation in hydrogen technologies and receiving hands-on training from experienced industry professionals, you can position yourself for placement in leading companies or even launch your own startup rooted in indigenous innovation.

For Faculty and Scientists: This training is designed to build complete confidence in independently developing, assembling, and testing fuel cells and electrolysers. Participants will gain the capability to conduct experiments without external dependency, enabling high-quality research, publications, and potential patentable innovations. [Train your research scholars in this field and establish a strong foundation for successful PhD guidance](#)

Salient Features of the Training:

- This training is conducted by fully industry-experienced professionals, and participants gain skills that are directly required in industry.
- Clear and simplified explanation of theory with strong practical correlation
- Individual guidance and personalized technical support
- Complete hands-on exposure with in-depth practical sessions
- No time pressure—participants can carry out experiments at their own pace
- Guaranteed confidence in handling hydrogen, fuel cell, and electrolyser systems
- Enables new research ideas, product development, and innovative pathways
- You can choose your convenient days for the training, including holidays.



Dr. Aristatil Ganesan is a Scientist at Aatral Innovations Pvt. Ltd., Chennai, and serves as the Training Coordinator for academic and research programs conducted across educational and scientific institutions. He holds a Doctorate in Fuel Cells, an M.Sc. in Materials Science, and an M.Tech. in Applied Physics. Dr. Ganesan has more than 11 years of industrial experience in fuel cell technology and six years of academic teaching experience at the university level, both in India and abroad. In recognition of his expertise, he was invited to the University of Pittsburgh, Pennsylvania, USA, where he served as a Senior Postdoctoral Researcher in the field of fuel cells.

Levels	Details	Duration	Charges INR
Level I	PEM Fuel cell Basic theory: 3 hours • Catalyst slurry preparation • Catalyst coating • Electrode fabrication • MEA hot press and fabrication • MEA Gasketting and Calculation • PEMFC single cell Assembly • PEMFC Testing and Evaluation	3 days	25,000
Level II	PEM Electrolyser (No fuel cell part) Basic theory: 3 hours • PEM Electrolyser single cell Assembly • Electrode and MEA fabrication, Using Pt/C catalyst • PEM-EL data plot • Gas Flow rate measurement • Energy Efficiency calculation etc • Experiments Using commercial MEA (Single cell) • Additional fee applicable for training with Commercial catalyst : Ir based	2 days	15,000
Level III	Advanced Training – Level I and II Basic theory: 6 hours Additions: • PEMFC polarization curve analysis • MEA-CCM Training • Basic calculations: Efficiency, flow rate, tafel and other problems • Portable short PEMFC stack demonstration • Stack components and principle of operations • Demonstration of Direct Methanol Fuel cells (DMFC) (depending on the availability of Materials) • Free sample Testing, Fuel cell, Electrolysers during training (conditions apply) • Discussions : you can discuss your idea and project proposals and career guidance	5 days	40,000

* The training fee is inclusive of high-value consumable materials, including catalysts, membranes, electrodes, and associated components required for hands-on training

Contact :

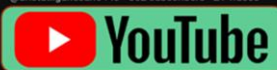
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