

SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY
(DEEMED TO BE UNIVERSITY)
CATEGORY - 1 UNIVERSITY BY UGC



Hands-on Training Program on Supercapacitor Devices Fabrication and Hydrogen Production

On

January 7th & 8th 2026

Organized by

Centre of Excellence for Energy Research,
Centre for Nanoscience and Nanotechnology



International Research Centre (IRC)
Presentation Hall (First Floor)

Registration link



<https://forms.gle/1XkV2uZccMyuChhc9>

**Students/Research
Scholars: Rs. 4000/-
Faculties: Rs. 5000/-
Industry : Rs. 6000/-**

Key Highlights of the Program

- Invited expert session on supercapacitors - Fundamental to Technology Level
- Hands-on Training – Electrodes Preparation
- Supercapacitor devices fabrication (Coin and Pouch cell)
- Industrial expert's demo on Hydrogen Production and utilization



Account Name : Director Innovation - Sathyabama
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SATHYABAMA

Sathyabama is a prestigious institution which excels in the fields of Engineering, Science and Technology for more than three successful decades. It offers multi-disciplinary academic programmes in various fields of Engineering, Science, Technology, Law, Dental Science, Pharmacy, Nursing, Management, Arts and Science and Allied Health Sciences. It is established under Sec.3 of UGC Act, 1956 and is been Accredited with 'A++' Grade by the National Accreditation and Assessment Council. The Institution has been Graded as Category I University by UGC under the UGC (Categorization of Universities (only) for Grant of Graded Autonomy) Regulations, 2018. Sathyabama has a good presence in rankings and ratings at National and International level. The Institution has been ranked in 51st position by the National Institutional Ranking Framework (NIRF), Government of India among the Universities in India for the year 2024 and ranked one among the top 100 Universities for nine consecutive years. Times Higher Education and QS has ranked Sathyabama among the top Institutions worldwide. Sathyabama Institute of Science & Technology has alliances with leading Universities and research establishments at National and International Level. It is a research-intensive University with world class laboratories and research facilities and is involved in research in the emerging areas of Science and Technology. Sathyabama has undertaken various sponsored and collaborative R&D projects funded by National and International Organizations.



Centre of Excellence for Energy Research

The Centre of Excellence for Energy Research (CEER) funded by the Ministry of Human Resource Development (MHRD), Govt. of India under the scheme of Centre of Excellence in the Frontier Areas of Science and Technology (FAST), and was inaugurated by His Excellency Dr. A. P. J. Abdul Kalam, Former President of India on December 09, 2014 in the august presence of Col. Dr. JEPPIAAR, Founder Chancellor, Chancellor, and President of the Sathyabama Institute of Science and Technology. The CEER aims to promote research activities in the area of Solar Photovoltaic, Fuel Cells, Supercapacitors, and Bio-energy etc. The main objectives of this Centre of Excellence is to promote education, training, R&D programmes in the novel and newly emerging areas of energy research and to develop cost effective, efficient and sustainable technologies for the energy needs of the nation. The Centre also aims to enhance the quality and quantity of basic and applied research programs. The Centre would organize training programs/workshops/conferences for students, researchers, academic staff, and scientists in India to further strengthen their expertise in the areas of energy research, to accelerate the India's human development index and to provide energy security.



Centre for Nanoscience and Nanotechnology

The Centre for Nanoscience and Nanotechnology was established in January 2006 at the University campus to accomplish the goal of enhancing advanced research in the areas of Nanoscience and Nanotechnology. The leading area of research includes nanomaterials, nanotechnology, composite materials, nanoelectronics and nanofabrication. In addition to research, the centre also conducts training and awareness programme, workshops, national and international conferences on recent trends and developments on various themes of national interests. The Centre is undertaking research and development projects from various national/international funding agencies. The institute offers research fellowships and scholarship programmes to students and researchers to facilitate for innovations and advancements in higher education. The Centre has equipped with many core research facilities for coatings deposition including RF/DC magnetron sputtering, Pulsed Laser Deposition (PLD), E-Beam Evaporation and Thermal Evaporation; and characterization facilities such as Field Emission Scanning Electron Microscopy (FESEM), High-resolution Scanning Transmission Electron Microscopy (HRSTEM), X-Ray Photoelectron Spectroscopy (XPS), Atomic Force Microscopy (AFM), Raman Spectroscopy, Glancing Angle X-Ray Diffraction (GIXRD), Linear Reciprocating Tribometer (LRT), Stylus Profilometer, Electrochemical Impedance Spectroscopy (EIS) and Hall effect, etc. Through these cutting-edge research facilities, we are developing innovative technologies for the industrial and social benefits.



To know about our centres and research domains, kindly visit

<https://www.centreforanotechnology.com>

<https://www.centreforenergyresearch.com>

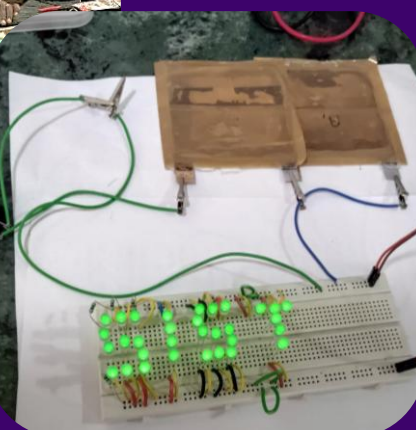
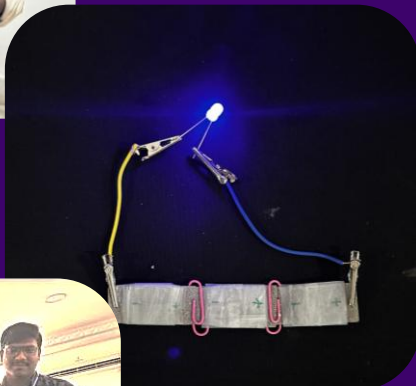
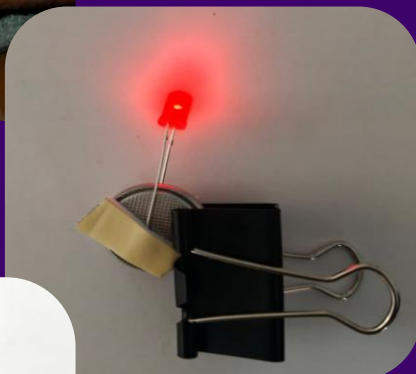
A B O U T

Speakers

Dr. M. Ulaganathan Associate Professor,
Department of Physics, Amrita Vishwa Vidyapeetham,
Coimbatore.

Mr. K. Mahalingam (Engineer), Vice-president,

Dr. S. Nagasubramanian, (Chemist R&D),
H2next-Green Energy, Karaikudi, India



Coin cell fabrication facility



About the workshop

Supercapacitors (or ultracapacitors) are advanced energy storage devices that bridge the gap between conventional capacitors and batteries. This hands-on training program offers a comprehensive experience in supercapacitor device fabrication and hydrogen production technologies, including electrolyser design and operation. Participants will gain practical knowledge of all essential steps - from material selection and electrode preparation to device assembly, performance testing, and integration with hydrogen generation systems.

Benefits of the training program

- Gain hands-on experience in
 1. Electrode preparation
 2. Supercapacitors device fabrication
 3. Hydrogen production and utilization
 4. Network with other participants from academia and industry
- Showcase of Nanomaterials “Chemmatnano Private Limited” Nanoproducts



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