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अनुसंधान नेशनल रिसर्च फाउंडेशन
Anusandhan National Research Foundation



वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद्
Council of Scientific & Industrial Research
(विज्ञान एवं प्रौद्योगिकी मंत्रालय, भारत सरकार)
Ministry of Science & Technology, Govt. of India



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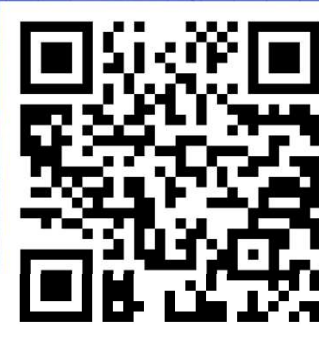
Contact us

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Visit our website

DISCOVER

INNOVATE

ENERGIZE

CENTRE OF EXCELLENCE FOR ENERGY RESEARCH

(Funded By MHRD, Govt. of India)



SATHYABAMA

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



<https://centreforenergyresearch.com/>

About CEER

The Centre of Excellence for Energy Research (CEER), a leading research hub focusing on sustainable energy technologies, was established under the MHRD, Government of India's Frontier Areas of Science and Technology (FAST) scheme. The centre was inaugurated by His Excellency Dr. A. P. J. Abdul Kalam, Former President of India, on December 9, 2014, in the august presence of Col. Dr. JEPPIAAR, Founder Chancellor, Chancellor, and President of the Sathyabama Institute of Science and Technology. The centre emphasises breakthrough research and innovation in crucial areas of energy conversion and storage technologies to address the global need for green and renewable energy. With state-of-the-art infrastructure and expert faculty, the centre bridges the gap between academic and industrial innovation, leading to product development. The centre is aiming towards advanced energy research to create efficient, affordable, and sustainable power solutions for generations to come.

Vision

To be a global leader in transformative energy research, driving sustainable innovation and shaping the future of clean and efficient energy technologies for the betterment of society and the environment.

Mission

- To advance frontier research in energy technologies through interdisciplinary innovation in solar photovoltaics, fuel cells, supercapacitors, Batteries, electrocatalysis, thermoelectric devices and bioenergy.
- To implement strategic collaborations with academia, industry, and government bodies to pioneer impactful and lasting energy solutions for a greener Earth.
- To promote knowledge dissemination through capacity-building programs that support the empowerment of global energy security as well as societal progress.

DISCOVER

INNOVATE

ENERGIES

KEY AREAS OF RESEARCH



CENTRE OUTCOMES

PUBLICATION	PATENT	PROJECT	PRODUCT	MOU	STARTUP	SUSTAINABLE DEVELOPMENT GOALS
300+	35+	40+	12+	25+	2+	7+

MAJOR RESEARCH FACILITIES

- RF/DC Magnetron Sputtering
- Electron Beam Evaporation
- Pulsed Laser Deposition
- DC Magnetron Sputtering
- Thermal Evaporator
- Spin Coating
- Chemical Vapor Deposition
- Cutting Machine
- Polishing Machine
- Ball Milling
- Pelletizer
- Dip Coating
- X-Ray Diffractometer
- X-Ray Photoelectron Spectrometer
- HR-STEM
- FESEM with EDS
- Electrochemical Workstation
- UV-Vis Spectrophotometer
- Micro Raman Spectrophotometer
- Fluorescence Spectrofluorometer
- AFM & Stylus Profilometer
- BET surface area analyzer
- Advanced Photo reactor Facility
- Hall Effect Measurement System