

Registration

Registration Link:

<https://forms.gle/45TepTSsibdafSpd7>

No Registration Fee

A maximum of 50 participants are allowed. Selection will be based on a first-come, first-served basis.

Who can apply?

Master students, PhD Scholars, Post Doctoral Fellows and Faculties.

No TA/DA will be given.

Topics to be covered

- Renewable energy materials
- Solar cell materials
- Photocatalysis
- Rechargeable Batteries
- Thermoelectric Materials
- Hydrogen Storage Materials
- Multifunctional materials

Speakers

Prof. P. Ravindran, CUTN, Thiruvarur
Prof. Rita John, Madras University, Chennai
Prof. S. Nagarajan, CUTN, Thiruvarur
Dr. P. Murugan, CECRI, Karaikudi
Dr. J. Rajesh Banu, CUTN, Thiruvarur
Dr. K. Sethuraman, CUTN, Thiruvarur
Dr. Guru Balamurugan, CUTN, Thiruvarur
Dr. Mohan Raj K, CUTN, Thiruvarur
Dr. Amrtha Bhide, NIT Puducherry, Karaikal
Dr. K. C. Shekar, CUTN, Thiruvarur

About MAGNET - 2024

In an era where sustainable development and environmental consciousness are at the forefront of global concerns, the significance of green energy technologies cannot be overstated. So this Two-Day National Workshop on MAterials for Green Energy Technologies is designed to bring together experts and researchers to explore the latest advancements in sustainable materials across the entire spectrum of green energy technologies. The first day will be dedicated to the exploration of sustainable materials for green energy generation. Experts will present cutting-edge studies on materials designed to enhance the efficiency of solar cells and photocatalysis. The focus on the second day will be twofold-green energy storage and efficient utilization. Morning sessions will delve into materials crucial for the development of efficient energy storage devices, such as batteries, Hydrogen storage and supercapacitors. In the afternoon, attention will shift to the efficient utilization of green energy. Experts will present research findings on materials used in thermoelectric materials and organic LEDs that optimize the utilization of green energy. There will be a lab visit in our departments to familiarize synthesis and characterisation processes.

Contact Detail

Prof. P. Ravindran
Professor and Head, Department of Physics
Head, SCANMAT Centre
Central University of Tamil Nadu
Thiruvarur
Email: scanmat@cutn.ac.in
Phone: +91 8300115029



Two Days National Workshop on MAterials for Green Energy Technologies (MAGNET - 2024)

Organized by
Simulation Centre for Atomistic and
Nanoscale MAterials (SCANMAT)
Central University of Tamil Nadu

Date
February 21-22, 2024

Sponsored by
Science and Engineering Research Board
(SERB-INDIA)



About SCANMAT Centre

Simulation Center for Atomic and Nanoscale MATerials (SCANMAT) is a simulation centre started in October 2016 and dedicated to the atomic and nanoscale modeling of advanced functional materials. The centre utilizes state-of-the-art computer programs and density functional methods to investigate various properties of materials. The properties we study are structural stability, chemical bonding, high-pressure studies, elastic properties, electronic properties, electrochemical properties, magnetic properties, optical properties, phonons and Raman spectra, superconductivity, transport properties, multiferroics, nanoscale modelling, photocatalytic properties, solar cells, thermoelectric properties, Li-ion/Na-ion and multivalent ion battery electrodes and machine learning methods. More than 50 research articles have been published from our research centre in highly reputed journals for the past eight years. Our interdisciplinary approach and collaboration with partners in India and abroad contribute to energy, environment, and emerging technologies advancements.

About CUTN

The Central University of Tamil Nadu, Thiruvarur, is a hub of academic excellence and innovation. Our institution takes immense pride in its 13 Schools, with 28 dynamic Departments that foster a diverse and enriching learning environment. Our commitment to comprehensive education is evident in the vast array of 64 academic programmes we offer, tailored to cater to different interests and aspirations. Among these are 29 research programmes, 22 specialized programmes, 6 integrated programmes, 2 undergraduate programmes, and several PG diploma courses. Through strategic collaborations with prestigious institutions such as the Sardar Vallabhbhai Patel International School of Textiles & Management, Coimbatore, and the Salim Ali Center for Ornithology and Natural History (SACON) in Coimbatore, CUTN extends its academic reach even further, providing undergraduate and postgraduate programs through industrial and institutional partnerships. Moreover, the Central University of Tamil Nadu houses a Community College, providing B.Voc Programmes, along with various certificate and diploma programmes to cater to diverse educational needs.

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