



THE M. D. T. HINDU COLLEGE, TIRUNELVELI
PG & RESEARCH DEPARTMENT OF PHYSICS

Organizes

ONE DAY STATE LEVEL SEMINAR ON
A FUEL FOR THE FUTURE

Jointly Sponsored by

தமிழ்நாடு அறிவியல் தொழில்நுட்ப மாநில மன்றம்

TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY
Govt. of Tamilnadu, Chennai



FUEL
2025

February
07
2025

Let's Talk about Clean Energy ☺

ABOUT THE INSTITUTION

The Madurai Diraviyam Thayumanavar Hindu College, also known as The M.D.T. Hindu College, is one of the oldest general degree college located in Tirunelveli, Tamilnadu. It was established in the year 1879. Professor "Manonmaniam" P. Sundaram Pillai was the First Principal who wrote "Tamil Thai Valthu". The college is affiliated with Manonmaniam Sundaranar University. The institute has received "ThinkEdu Award" in 2020 awarded by Tamilnadu government for the glorious 142 years of educational service to the poor and downtrodden students as well as for collecting the lowest education fee in the southern region. The institute has received a grant of Rs. 70 Lakhs from Department of Science and Technology (DST) under Fund for Improvement of Science & Technology Infrastructure (FIST) scheme in 2014.

ABOUT THE DEPARTMENT

PG & Research Department of Physics has been structured in terms of well qualified faculties. Every year the department organizes various events, guest lectures and value added courses for the welfare of students. The department motivates the students to do innovative/research projects and to attend many seminars and events. The department has been equipped with the research characterization instruments UV-Vis Spectrophotometer, FTIR Spectrophotometer, Vicker's Micro Hardness Tester, 5kW- Biomass gasifier by using the DST-FIST grant. A home-made Seiverts' like hydrogen storage setup and a shock-wave tube has been designed under TNSCST grants. PG & Research Department of Physics has been an approved research center from 2015. Till now 16 research scholars have been awarded and 18 research scholars are pursuing doctoral degree at this research center in the fields of Crystal growth, Materials Science, Nanotechnology and Renewable energy.

ABOUT THE SEMINAR

The present and the future world are in need of additional/alternate energy sources because of the growing population rate, diminishing availability of fossil fuels and increase in global warming. In this context, recently Government of Tamilnadu has established a Green Hydrogen Hub in 2023 for keeping the state in the forefront of the revolution towards green/renewable energy transformation. Aim of this event is to provide awareness about the utilization of renewable energy sources for the benefit of society among young students and research scholars to improve their knowledge and understanding of a topic by engaging with key issues. This program is sure to illuminate young minds and to illustrate the greatest challenge to all disciplines of modern science, and most especially with those that pertain to the environment - the integration of technology, nature and human beings.

TECHNICAL SESSIONS

Session I



Dr. M. Jeyanthinath
Associate Professor
School of Chemistry
Madurai Kamaraj University, Madurai

Solar Cells: Basics to Step by Step Fabrication

Session II



Dr. K. K. Aruna
Professor in Physics and Team Lead
Advanced Electrochemical Energy Materials Lab
Rathinam Research Hub
Rathinam Technical Campus, Coimbatore

Electrochemical Systems for Clean and Sustainable Future

Session III



Dr. K. Mohanraj
Associate Professor
School of Basic and Applied Sciences
Central University of Tamilnadu, Thiruvarur

Energy Conversion and Storage - An Overview



PATRON

DR. R. SURESH

President, The M.D.T. Hindu Collge

Mr. A.L.S. SHUNMUGAM

Secretary, The M.D.T. Hindu Collge

Mr. DALAVOY R. THIRUMALAIAPPAN

Treasurer, The Educational Society

Mr. C. THIRUVARIYA MUTHU

Member, College Committee

Mr. M. SENGU VIJAY

Member, College Committee

Mr. K. SUBRAMANIAN

Member, College Committee

CONVENOR

Dr. K. Balasubramanian

Principal, Head & Associate Professor of Physics

ORGANIZING COMMITTEE

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Dr. R. Subash Chandra Bose

Assistant Professor of Physics

ORGANIZING SECRETARY

Dr. D. Silambarasan

Assistant Professor

P.G. & Research Department of Physics

The M.D.T. Hindu College

Contact: 99943 92894

e-mail: drdsnmdt@gmail.com

SPOT Registration
Registration Fee - Rs. 100/-
Lunch Will be Provided