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- Dr. Angel Susan Cherian (General Convener)
(HOD, Department of Physics, Mar Thoma College)
- Dr. Anju K Nair (Coordinator)
- Dr. Noble P. Abraham
- Dr. I John Berlin
- Dr. Arun Vinod
- Dr. Navya Sara Kuriyan
- Dr. Elizabeth Thomas

Scope of the Conference

The National Conference on Smart Energy, Sustainable Development, and AI Applications aims to unite researchers, academicians, industry professionals, and students to explore emerging trends in energy and technology.

It focuses on the integration of renewable energy, sustainable development practices, and artificial intelligence, offering a platform for sharing ideas, presenting research, and fostering collaborations that support a future driven by smart and sustainable solutions.

List of Speakers

- Dr. Suraj Soman
Principal Scientist
NIIIST, Thiruvananthapuram
- Prof. (Dr.) Alex James
Professor
DUK, Kerala
- Dr. Nitin Mohan
Assistant Professor
IIT Kanpur
- Dr. Arun Aravind
Assistant Professor
Bishop Moore College, Mavelikkara
- Dr. Christie Thomas Cherian
Assistant Professor
DUK, Kerala
- Dr. Indu Elizabeth
Sr. Scientist
CSIR-NAL Bangalore
- Dr. Sabeena M
Assistant Professor
CUSAT, Kochi
- Dr. Sreekanth Perumbilavil
Assistant Professor
Manipal Institute of Applied Physics, Manipal



MAR THOMA COLLEGE, TIRUVALLA

Education *par excellence* and Educated for the Society
(Accredited with A-Grade by the National Assessment and Accreditation Council - NAAC)

Affiliated to Mahatma Gandhi University, Kerala | www.mtct.ac.in
Kuttapuzha P. O., Tiruvalla, Kerala - 689 103, India, Ph: 0469 2630342

NATIONAL CONFERENCE ON SMART ENERGY, SUSTAINABLE DEVELOPMENT AND AI APPLICATIONS

Co-sponsored by KSCSTE



FEBRUARY 19-20, 2026



Seminar Hall, Dr. Alexander Mar Thoma
Memorial Golden Jubilee Block



For more details contact-
9447803141, 9961009678



Organised by
Department of Physics
Mar Thoma College Tiruvalla
in Association with
School of Electronic System
and Automation
Digital University Kerala

About Mar Thoma College

- Established in 1952
- Affiliated with Mahatma Gandhi University
- First NAAC-accredited college in South India
- Offers UG, PG & PhD programs
- Known for research culture, discipline, eco-friendly campus
- Motto: Education par Excellence – Educated for the Society

Important Dates

- **Abstract Submission: Feb 10, 2026**
 - **Acceptance: Feb 12 2026**
- **Registration Deadline: Feb 17, 2026**

For Registration:

<https://tinyurl.com/energy-ai>

Registration Fees

- **Students/Scholars: ₹500**
- **Faculty: ₹1000**
- **Industry Delegates: ₹2000**

**Submit abstracts to
physics@mtct.ac.in**

About the department

- B.Sc. (Hons), M. Sc. & Ph. D. programmes
- Recognised Research Centre of MG University : Material / Nano Science, Nanotechnology, Space Physics, Solar-Terrestrial Physics, Radiation Physics
- Regular seminars, workshops & outreach programmes
- Team of highly qualified faculty

Abstract Submission

- Researchers, faculty members, and students are invited to submit original research abstracts related to the themes of the conference.
- Abstracts should be 300 words maximum, typed in Times New Roman, 12-pt font, and include:
 - Title
 - Author(s) and affiliation(s)
 - Email ID of corresponding author
 - 3–5 keywords
- Selected papers shall be published in an indexed journal / ISBN book

Awards

- Best Oral Presentation –
 - Certificate + Cash Prize
- Best Poster Presentation –
 - Certificate + Cash Prize



Focal Themes

1

- Sustainable Development
- Climate change
 - Eco-friendly Materials
 - Waste-to-Energy
 - Urban Sustainability

2

- Smart Energy Systems
- Renewable Energy
 - Smart Grids
 - Energy Storage
 - Green Hydrogen

3

- Advanced Materials
- Nanomaterials
 - Photovoltaics
 - Semiconductors
 - Superconductors

4

- AI & Computational Physics
- AI for Energy
 - ML for Materials
 - IoT & Smart Cities