



# ST. TERESA'S COLLEGE (AUTONOMOUS), ERNAKULAM

Affiliated to Mahatma Gandhi University, Kottayam

Re-Accredited by NAAC with A++ Grade in Fourth Cycle

NIRF Ranking 60 (2025) | KIRF Ranking 2 (2025)

## Annual Physics Symposium 2025-26



10,11  
March  
2026



Seminar Hall  
Arts Block

Department of Physics & Centre for Research  
St. Teresa's College (Autonomous), Ernakulam

### APS 2025-26

#### “Physics at the Edge: Innovations in Frontier Research”

The Annual Physics Symposium (APS), hosted by the Department of Physics and Centre for Research, St. Teresa's College (Autonomous), is a dynamic celebration of scientific inquiry and discovery. Designed as an intellectual confluence, APS brings together students, researchers, and distinguished scholars to explore the ever-expanding frontiers of Physics. APS is an immersive academic experience where participants listen, question, interact, and engage directly with experts working at the cutting edge of research. The symposium aims to ignite curiosity, deepen understanding, and connect classroom concepts with real-world scientific breakthroughs.

St. Teresa's College(Autonomous), Park Avenue, Marine Drive, Ernakulam

## Programme Schedule

10-03-2026

09.30 am : **Inauguration**

**Keynote : "Proton Decay: A Window to the Fundamental Questions in Nature"**



**Dr. Mathew Arun Thomas**  
Assistant Professor, IISER Thiruvananthapuram

Invited talk 1 :

**"Data-powered Astronomy: New horizons & Opportunities"**



**Dr. Vivek M**  
Associate Professor  
Indian Institute of Astrophysics  
Bengaluru, Karnataka

11-03-2026

Invited Talk 2 :

**"Fundamental Physics with Ultracold Neutrons in Canada"**



**Dr. Noah Yazdandoost**  
Scientist, TUCAN collaboration at TRIUMF,  
Canada's National Particle Accelerator Centre, Canada

Invited talk 3 :

**"Carbon Based High Performance Supercapacitors "**



**Dr. Biju V**  
Professor, Department of Physics  
Kariavattom Campus, University of Kerala, Thiruvananthapuram



<https://zoom.us/j/98701117790?pwd=f506ZRvASow77KhJ2TF1nzdZJXmvuk.1#success>

# Department of Physics & Centre for Research St. Teresa's College (Autonomous), Ernakulam

Established in 1959, the Department of Physics and Centre for Research at St. Teresa's College (Autonomous), Ernakulam, has long flourished under the guiding principle: "Work is Worship." Over the decades, the department has evolved from a foundational pillar of the college into a premier hub for scientific inquiry—earning recognition as a Postgraduate Department in 1999 and a Research Centre in 2008.

Supported by DST-FIST since 2012, the department is a vibrant ecosystem where critical thinking meets cutting-edge research. Our legacy is defined by impactful publications, global research collaborations, and a rigorous academic culture enriched by frequent seminars and workshops. Beyond the lab, we are proud leaders in sustainability, garnering state and national accolades for excellence in energy conservation.

Dedicated to the empowerment of women, the department continues to bridge the gap between tradition and innovation, shaping the next generation of visionary physicists and scholars.

## Our Patrons

**Rev. Sr. Nilima CSST**, Manager

**Rev. Sr. Tessa CSST**, Director

**Rev. Sr. Francis Ann**, CSST, Director

**Dr. Anu Joseph**, Principal

## Organizing Committee

**Dr. Mary Vinaya**, HoD, Coordinator

**Dr. Mariyam Thomas**, Coordinator

**Dr. Priya Parvathi Ameena Jose**

**Dr. Santhi A**

**Dr. Minu Pius**

**Dr. Susan Mathew**

**Dr. Frincy Francis**

**Dr. Sreeja V G**

