

Department of Physics Activities

1. The Department of Physics, Loyola College of Arts and Science, Mettala, participated in the Physics Symposium **HyPhy'25** held on 29th September 2025 at **Holy Cross College, Tiruchirappalli**. Our students achieved remarkable success: a team comprising Martin, Parthiban Rao, Sudharsnan, Selvamani, and Vinothini secured **Second Place in Adzap**; Vishal won **First Place in Photography**; and Selvamani and Vinothini secured **Third Place in Dance**. In addition, Vishal received special recognition in the title event **Mr. HyPhy'25**.



2. Educational Tour Report – Thekkadi & Vagamon (Kerala)

The Department of Physics organized an educational tour to **Thekkadi** and **Vagamon**, Kerala, on 12th and 13th February 2026 to provide students with practical exposure to nature, environmental awareness, and experiential learning.

On the first day, the team visited Parunthumpara View Point, Ramakkalmedu, and nearby waterfalls and valley points. Students observed wind energy installations at Ramakkalmedu and gained knowledge about renewable energy, weather conditions, and environmental conservation.

On the second day, the students explored the Periyar dam surroundings and forest area, where they conducted a nature walk and learned about forest conservation and wildlife protection. Later, they visited Vagamon Meadows, Pine Forest, Glass Bridge, Thangalpara, and Karikadu View Point, where they studied the geographical features and climatic conditions of the Western Ghats.

The tour was accompanied by faculty members who ensured the safety and discipline of the students. The educational visit was informative and successful, enhancing students' practical understanding of environmental and physical concepts while promoting teamwork and overall development.



3. Staff Achievements:

Dr. T. Sofia Nirmala

Participation

- Dr. T. Sofia Nirmala has participated in the NEP 2020 Orientation & Sensitization Programme under the Malaviya Mission Teacher Training Programme (MM-TTP), conducted by the University Grants Commission and organized by UGC-MMTTC, University of Kerala, from 01-07-2025 to 11-07-2025.

Presentation

- Dr. T. Sofia Nirmala presented a research paper titled “**Microwave Combustion Synthesis and Third Order Nonlinear Optical Traits and Optical Limiting behaviour of Gd³⁺ Ion Doped ZnAl₂O₄ Nanoparticles**” at the M-SPEC 2K26 National Conference on “An Impact of AI on Science, Education and Society”, organized by Muthayammal College of Arts and Science, Rasipuram.

Dr. R. David Prabu

- Dr. R. David Prabu presented a research paper titled “Effect of Spray Pressure on the properties of copper oxide thin films and solar cell Efficiency” at the M-SPEC 2K26 National Conference on “An Impact of AI on Science, Education and Society”, organized by Muthayammal College of Arts and Science, Rasipuram.

Dr. J. Madona

Participation

- Dr. J. Madona has actively participated in the Industry Expert Talk on “Energy Science & Technology – Battery Revolution”, organized by the Division of Physical Sciences, Karunya Deemed University, on 16th May 2025.
- She has participated in the NEP 2020 Orientation & Sensitization Programme under the Malaviya Mission Teacher Training Programme (MM-TTP), conducted by the University Grants Commission and organized by UGC-MMTTC, University of Kerala, from 01-07-2025 to 11-07-2025.

Presentation

- Dr. J. Madona presented a research paper titled “Heterostructured C-CeO₂/g-C₃N₄ Nanocomposite for Degradation of Amoxicillin under Sunlight Irradiation” at the M-

SPEC 2K26 National Conference on “An Impact of AI on Science, Education and Society”, organized by Muthayammal College of Arts and Science, Rasipuram.

Naan Mudhalvan

- Dr. J. Madona successfully completed the courses “Foundation of Digital Marketing” and “Microsoft Digital Skills” under the Naan Mudhalvan initiative of the Government of Tamil Nadu. She secured Grade A+ in both courses.