



PES INSTITUTE OF TECHNOLOGY AND MANAGEMENT

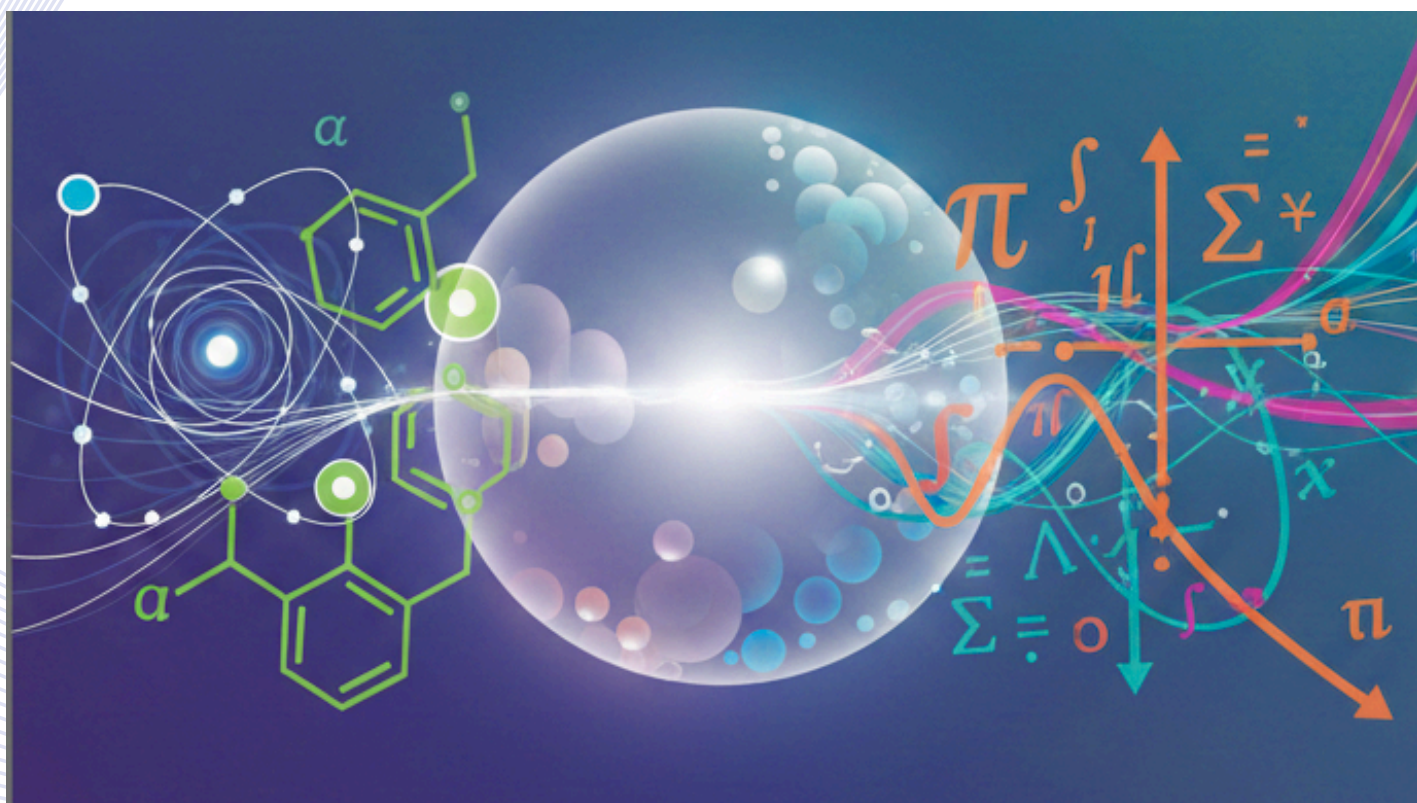
NH-206, Sagar Road, Shivamogga-577204

SEP 2025 - JAN 2026

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BASIC SCIENCE & HUMANITIES

# NEWSLETTER



# PRERAK

*Inspiring Scientific Temper*

## CONTENTS

**PHYSICS  
DEPARTMENT**  
**2**

**MATHEMATICS  
DEPARTMENT**  
**3-4**

**CHEMISTRY  
DEPARTMENT**  
**5**



## THE TEAM

- Chief Patron  
Dr. Swamy D. R.  
Principal, PESITM

- Patron  
Dr. Sekar R.  
Vice-Principal, PESITM

### Editor-in-Chief

- Ms. Himarashmi S Naik  
Assistant Professor, Basic  
Science and Humanities, PESITM

### Editorial Committee

- Mrs. Rashmi H S  
Assistant Professor, Department  
of Physics , PESITM

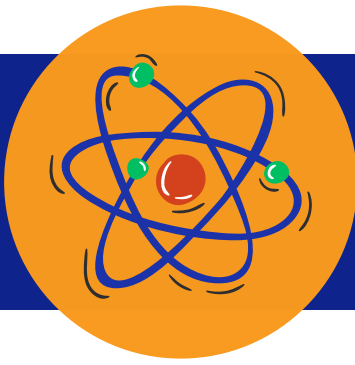
## HEADS OF THE DEPARTMENT

- Dr. Pramod Gopal Pai  
Head of the Department – P-Cycle

- Dr. Mohan Kumar  
Head of the Department – C-Cycle

- Dr. Aveesh S T  
Head of the Department – Mathematics

*“Science lays the foundation,  
Engineering builds the future.”*



# PHYSICS PROJECT

Exhibition for P-Cycle students

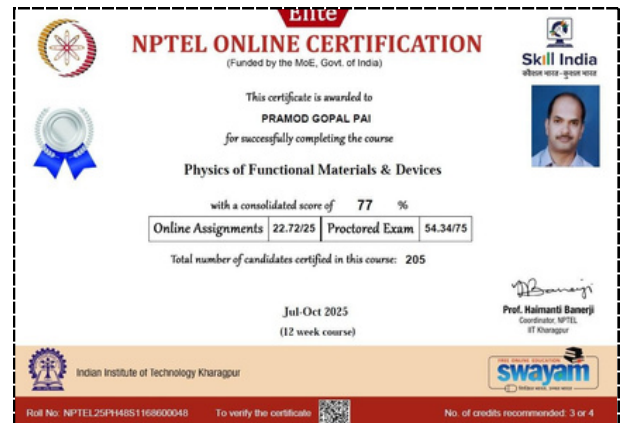
**PHYSICS**



The Department of Physics organised a Physics Project Exhibition on 20th November, 2025. The P-Cycle students were motivated to participate in the exhibition and encouraged experiential learning and creative exploration of fundamental physics principles

## Faculty Contribution

Dr. Pramod Gopal Pai, HOD – P-Cycle, successfully completed the NPTEL online certification course “Physics of Functional Materials” (IIT Kharagpur, July–October 2025) with an Elite Silver grade.



## STUDENT ACHIEVERS

Ms. Shwetha Malavi and Ms. Nishkala K R secured the top position in Physics with a score of 99/100 in the 2nd Semester VTU examinations (July–August 2025). They students felicitated by Dr. Swamy D R Principal and Vice-Principal on 20<sup>th</sup> November, 2025





## MATH QUIZ-2025

The Department of Mathematics organised MathQuiz-2025 as part of "National Mathematics Day" on 22nd December, 2025 commemorating the birth anniversary of Srinivasa Ramanujan. A total of 106 teams participated enthusiastically. Mr. Devendra Sankla and Mr. Ayaz Khan emerged as winners, while Ms. Aishwarya A and Ms. Bhuvana P secured the runners-up position.

## STUDENT ACHIEVEMENTS



The Principal, Dr. Swamy D. R., and Vice-Principal, Dr. Sekar R., felicitated the students who secured 100/100 marks in the I and II Semester VTU Mathematics Examinations (2024-25) as a token of encouragement.

## MATH- FDP 2025



The Department of Mathematics organised a one-day in-house Faculty Development Programme (FDP) titled “Emerging Trends and Sustainable Applications in Engineering Mathematics” on 9th September, 2025. The programme was attended by 15 faculty members and featured expert sessions by Dr. Pradeep C. R., Professor, CIT, Gubbi, and Prof. Sharayu, Professor, CIT, Gubbi, who shared insights on recent advancements and sustainable applications in engineering mathematics.



## Research Milestone

One research scholar, Mr. Deepak K. S. (USN: 4PM15PMA01) from the Department of Mathematics, successfully completed the Ph.D. degree at the Mathematics Research Centre, PESITM, under the guidance of Dr. Aveesh S. T.



## Publications

Dr. Nimmala Narendra has published the following research papers in reputed international journals:

- “Common Origin of Asymmetric Self-Interacting Dark Matter and Dirac Leptogenesis” Manoranjan Dutta and Nimmala Narendra, Physical Review D, Vol. 112, No. 11, 115043 (2025).
- “Impact of Non-Thermal Leptogenesis with Early Matter Domination on Gravitational Waves from First-Order Phase Transition” Dilip Kumar Ghosh, Koustav Mukherjee, Nimmala Narendra, Nobuchika Okada, European Physical Journal C, Vol. 85, No. 12, 1485 (2025)



# Poster Presentation

“ G R E E N   E N E R G Y ”



The Department of Chemistry organised a Poster Presentation as a mandatory experiential learning activity for first-year, first-semester C-Cycle students in December, 2025. The activity was conducted in the respective classrooms to enhance research orientation, conceptual understanding, and scientific communication skills. The program was executed under effective faculty mentorship, with students displaying notable enthusiasm and discipline.

Guided by their advisors, students presented posters on themes related to sustainable energy solutions. The focus areas included battery technology, energy harvesting, and future fuels, including hydrogen fuel cells.

## FACULTY PUBLICATIONS

- Dr. Mohan Kumar served as a peer reviewer for reputed international journals published by Elsevier, Springer Nature, and the American Chemical Society, and has authored four research articles and one book chapter in Scopus-indexed publications.
- Dr. M. Praveen authored the book “Introduction to Electromagnetic Absorbers” published by Springer and has published one research article in a Q1 Scopus-indexed journal.
- Dr. Ravindra K. S. has published one research article in a peer-reviewed Scopus-indexed international journal.