



## Department of Studies in Physics

### RUSA Sponsored Faculty Development Program

in association with

Malaviya Mission Teacher Training Centre  
(MMTTC)



## Two-Day National Seminar on Advanced Functional Materials and Devices

6<sup>th</sup> and 7<sup>th</sup> February 2026

### About the Program

Join us for a RUSA-sponsored workshop exploring the forefront of functional materials in sustainable energy and environmental technology. Distinguished experts will discuss progress in electrochemical storage, computational material design, PVDF nanocomposites for EMI shielding and battery separators. The program highlights innovations in gas sensing and semiconductor heterojunctions, bridging fundamental research with practical solutions for pollutant management.

### Topics and Speakers

- Nanocomposite Materials for Sustainable Energy Applications.
- 2D Nanomaterials Based Composites for Water Splitting and Fuel Cell Applications.

**Dr. K. Pramoda, Jain University, Bengaluru**

- Electrochemical Energy Storage: from Fundamentals to Materials Engineering.

**Dr. Debasis Ghosh, Jain University, Bengaluru**

- Applied Computational Chemistry for Rationalizing Experimental Observations and Designing Novel Materials.

**Dr. P. Muthu Austeria, Jain University, Bengaluru**

- Engineering PVDF Nanocomposites with Heavy Ions for Enhanced Electromagnetic Interference -Shielding Performance.
- Ion-Beam Irradiated PVDF Nanocomposite Separators as Next-Gen Zinc- Air Batteries.

**Dr. Khadke Udaykumar, VSK University, Ballari**

- Semiconductor Nano-heterojunctions for Photo-assisted Degradation of Pollutants.

**Dr. N .Kumara Swamy, JSSSTU, Mysuru**

- Metal Oxide Semiconductor based Sensor Array

**Dr. S. B. Rudraswamy, JSSSTU, Mysuru**

Physics UG/PG Faculty, research scholars and PG students from various institutes are invited to participate.

### Registration details

To register use the link or QR code:

<https://forms.gle/ts8JgHSajDUyPCYV7>



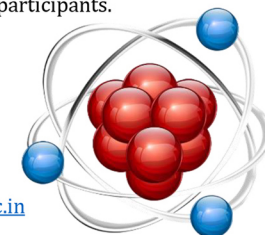
**Last date for registration: 30<sup>th</sup> January 2026 at 5 pm**

### Note:

- There is no registration fee.
- Resource Materials, certificates, snacks, and lunch will be provided.
- Registration is limited to the first 40 participants.

### For further details contact:

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### Event Details:

**Date:** 6<sup>th</sup> and 7<sup>th</sup> February 2026 from 9:00 am.

**Organizers:** Department of Studies in Physics, University of Mysore, Mysuru.

**Venue:** Einstein Auditorium, DoS in Physics, Manasagangotri, University of Mysore, Mysuru-06.

Get directions to the venue by clicking the link:

<https://maps.app.goo.gl/6QuTY9oYUookh7SF7>