

## Chief Guests

**Dr. J.N. BALARAJU**

Chief Scientist & Head  
Surface Engineering Division  
CSIR-National Aerospace Laboratories (NAL),  
Bangalore, Karnataka, India.

**Dr. RAMESH KARUPPANNAN,**

Principal Research Scientist,  
Department of Physics,  
Indian Institute of Science (IISc), Bangalore.

**Dr. KAVITHAA. S**

Group Head & Scientist-E,  
Materials & Metallurgy Group,  
Centre for Special Purpose Machines,  
Central Manufacturing Technology Institute,  
Bangalore.

**Dr. RAKKIYAPAN RAJAN,**

Assistant Professor,  
Department of Mathematics,  
Bharathiar University,  
Coimbatore, India.

## Registration Fee

Faculty/Scientist	-	₹1000
Research Scholars	-	₹800
Students	-	₹600

## Scan For Registration



## Abstract Submission

Email ID : ncaras2025@mvjce.edu.in

## Chief Patron

**Shri M.J. BALACHANDAR**

The Chairman

## Patron

**Dr. Ajayan K.R**

The Principal

## Convener Cum Organizing Secretary

**Dr. Sathish Sugumaran**

Associate Professor/R & D Coordinator,  
Department of Physics  
School of Applied Science

## Co-Conveners

Dr. I. Hameem Shanavas, Dean Applied Science

Dr. Bharath. D, HoD Physics

Dr. Preethi. G, HoD Chemistry

Dr. Pradeep C, HoD Mathematics

## REGISTRATION

Abstract Submission	: July 31, 2025
Intimation of Acceptance	: August 02 - 06, 2025
Full Paper Submission	: June 10-August 31, 2025

## Contact Person Details

**Dr. Sathish Sugumaran**

Convener cum Organizing Secretary  
9952715912

sathishsugumaran@mvjce.edu.in



**Engineering A Better Tomorrow**  
**An Autonomous Institute**

**National Conference on Advanced  
Research in Applied Sciences  
(NCARAS-2025)**

**8th & 9th August  
2025**

MVJ College of Engineering, Whitefield, Bangalore

## About MVJCE

MVJ College of Engineering was established in 1982 as the flagship institution of the Venkatesha Education Society to impart education in engineering, management, and beyond. MVJCE's 15-acre campus in Whitefield, Bangalore, bears state-of-the-art infrastructure that creates an environment for progressive learning and development. The College is approved by AICTE – New Delhi, affiliated to VTU – Belagavi and recognized by UGC with 2(f) & 12(B) status. MVJCE has come a long way since its modest beginnings. Today, it is ranked among the front-line Engineering Colleges in Karnataka. The secret for this achievement is that it has evolved constantly, keeping pace with changing times and technologies. Notably, the College was conferred with Autonomous Status from the Academic year 2019-20. The Institute initially started with undergraduate programmes in four disciplines in 1982, with a modest intake of 200. Subsequently, the Institute got approval for more programmes over different academic years, and has grown by leaps and bounds in the last 42 years. We currently offer 15 undergraduate Programmes, 8 Postgraduate Programmes and Ph D under 9 Programmes / research centres.

## Conference Objectives

A prime objective of the conference (NCARAS - 2025) to create a confluence forum for Physics, Chemistry and Mathematics departments to exchange scientific knowledge. The conference facilitates an opportunity to explore the advances in research aspects, recent developments and prospects in applied sciences and mathematical sciences. This conference leads to develop the research network through invited talks, discussions and presentation sessions. The conference paves to propagate the scientific knowledge to students, faculty, research scholars and research scientists.



## Conference Themes

### Advances In Materials For Emerging Applications

- » Physical / Chemical / Green synthesis of materials – Polymers, Metals, Metal Alloys, Metal oxides, Ceramics and Composites / hybrids.
- » Nanostructured materials- Electrical, optical, magnetic, elastic, mechanical characteristics
- » Thin film materials - Electrical, optical, magnetic, elastic, mechanical characteristics
- » Optics and non-linear materials
- » Materials for Electronic and Optoelectronic devices
- » Materials for Sensors, Biosensors and Smart Sensor
- » Materials for Automobile and Aeronautical applications
- » Materials for Structural Engineering Applications
- » Nano-Biomaterials and Nano-Biotechnology Applications
- » Materials for capacitors/supercapacitors, fuel cells, batteries, energy storage, renewable energy and resources.
- » Materials for photo catalyst, H2 production, water splitting, CO2 capture and other utilization.

### Advances In Mathematical / Statistical / Computational Sciences

- » Computational Fluid Mechanics
- » Graph Theory
- » Wavelets
- » Topology
- » Differential equations
- » Image encryption and decryption
- » Artificial intelligence
- » Neural networks
- » Fuzzy sets and Logic
- » Number theory and cryptography
- » Complexity theory
- » Control theory
- » Operations research
- » Mathematical Biology
- » Mathematical Physics

## School of Applied Sciences



### Physics

Offers foundational engineering physics courses and advanced research in the frontiers of materials science and nanotechnology. The Research Centre in the Department of Physics is recognized by Visvesvaraya Technological University (VTU) with a vibrant hub for scientific innovation and a collaborative environment to pave scientific knowledge and transformative technologies that benefit society at large.



### Chemistry

Supports interdisciplinary learning and runs a VTU-recognized research center. Focus areas include materials chemistry and sustainable solutions. The department collaborates across sectors and consistently publishes in reputed journals.



### Mathematics

The Mathematics Department is committed to empowering students with the analytical skills, critical thinking abilities, and mathematical fluency necessary to excel as competent engineers and contribute meaningfully to society's technological advancement. The Research Centre in the Department of Mathematics is recognized by Visvesvaraya Technological University (VTU) with spanning a diverse range of mathematical disciplines, the research centre focuses on both pure and applied mathematics. The centre serves as a melting pot for mathematical ideas, encouraging interdisciplinary collaborations that transcend traditional boundaries.

## Who Can Apply?

Registration is open to all faculty members, engineering / science students, research scholars, and research scientists of AICTE-approved institutions, Govt / Private Institutions, research scholars, PG scholars and personnel from Industry.

## Publication

The accepted manuscripts after the internal review will be submitted for the possible inclusion in the Scopus Indexed Conference Proceedings / Book Series with ISBN and SCI Journals (as per the respective publisher's policy). The publication charges will be waived from the authors / participants as per Journal APC if the paper is accepted, wherever applicable. The proceedings / journal publisher's details will be informed later.