



International Conference on Applied Sciences and Advanced Materials



Hybrid Mode

28-29 November 2025

Organized by

- Department of Mechanical Engineering
- Department of Physics
- Department of Chemistry
- Department of Mathematics

About BNMIT



BNMEI – B.N.M Educational Institutions was established by the trust Bhageerathi Bai Narayana Rao Maanay Charities in the year 1972. The Managing Trustee Shri. N. Raghunath Rao Maanay along with Prof. Sunanda P Jadhav the founder Secretary and Principal founded the institution with a focused vision to impart value-based quality education irrespective of social, financial or religious status. Prof. Sunanda P. Jadhav strived to provide education at affordable cost especially to the girl child and her unstinted efforts yielded highly commendable results. From a humble beginning the BNM group of Educational Institutions is now a leader in the field of education, providing the most modern education while maintaining the rich cultural heritage of the great India.

Education starts at BNM offering Montessori system to Tiny Tots at the tender age of two and half years in the BNM Montessori House. BNM is an amalgam of Educational Institutions consisting of BNM Montessori House, BNM Primary School (State Syllabus), BNM High School (State Syllabus), BNM Public School (Central Syllabus), BNM PU College, BNM Degree College and BNM Institute of Technology.

About the Conference

The International Conference on Applied Sciences and Advanced Materials (ICASAM 2025) aims to bring together researchers, academicians, and industry experts to explore cutting-edge advancements in applied sciences and material technologies. Organized by the Departments of Mechanical Engineering and Basic Sciences, the conference will serve as a platform for knowledge exchange, fostering interdisciplinary collaborations. Key topics include advanced materials, nanotechnology, sustainable innovations, and emerging trends in applied sciences. ICASAM 2025 will feature keynote sessions, technical presentations, and interactive discussions, providing valuable insights for global scientific and industrial communities. Join us on November 28–29, 2025, to be part of this transformative event.

About the Departments

Department of Mechanical Engineering

The Department of Mechanical Engineering was established in 2011 with an intake of 60 students. It boasts well-equipped state-of-the-art laboratories and a team of dedicated faculty with rich academic and industrial experience. The faculty hold Master's and Doctorate degrees in Machine Design, Thermal, and Manufacturing Engineering. The Department is also recognized as an R&D Centre by VTU, Belagavi. Our curriculum is enriched with interdisciplinary subjects from AIML and Computer Science to meet modern industry demands. The Toyota Centre of Excellence provides hands-on training in engine and transmission systems, bridging theory and practice. The 3D Printing Centre of Excellence offers practical exposure to additive manufacturing technologies, fostering innovation and skill development.

Department of Physics

The Physics Department has enthusiastic and academically experienced teaching and technical staff. The Department has three doctorate holders and the other faculty member has registered for his Ph.D. program. The Department has been recognized as a Research Centre under VTU, Belgavi. The faculty members are actively involved in research activities in Molecular Spectroscopy, Material Science, Nanotechnology, Computational Physics and Biophysics. The Department aims to equip future engineers with various aspects of Physics. The Applied Physics Laboratory is well-furnished with the latest equipment and all the necessary facilities. The Department also has a Research Laboratory to enable the faculty members to pursue experimental research work in the fields of Molecular Spectroscopy, Material Science and Nanotechnology.

Department of Chemistry

The Department of Chemistry is led by a team of highly qualified, dedicated, and passionate faculty members committed to delivering excellence in Academics and research. With a strong foundation in fundamental and applied chemistry, the Department fosters scientific inquiry, critical thinking, and problem-solving skills, preparing students to compete globally. It encourages innovation and inspires students to contribute to advancements in science while addressing real-world environmental and industrial challenges. The Department is actively involved in guiding various projects to the Engineering students. The Department has a well-equipped lab and a recognized research Centre under VTU Belagavi. The Department ensures hands-on learning and personalized mentorship. The Department is actively engaged in research areas of Pharmaceutics, Corrosion, Material Chemistry, Nano Materials, water treatment and Medicinal Chemistry. The Department has demonstrated its research excellence through publications in national and international journals, as well as by authoring books and securing patents.

Department of Mathematics

The Department is equipped with well-experienced, academically oriented faculty. The Department has fully-fledged Research Centre recognized by Visvesvaraya Technology University, Belgaum. The Department is actively engaged in research areas of Fluid Mechanics and Graph Theory. The Department has also successfully conducted international conferences and Symposia on mathematical topics relevant to Engineering, and hosted 52 congress of the Indian Society of Theoretical and Applied Mechanics (An International Meet) in collaboration with IIT, Kharagpur.

Important dates:

- Abstract Submission : 30th June 2025
- Acceptance Notification: 15th July 2025
- Full length paper submission and Author registration: 2nd November 2025

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Chairman, Governing Body,
BNM Institute of Technology, Bengaluru, India.

 **Chief Mentor**

Dr. S. Sadagopan,
Former Director, IIIT Bangalore,
Advisor, BNMIT

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Sri. Bapugowda C. M., Assistant Professor, Mechanical Engineering Dept., BNMIT

Sri. Vishwanath B R., Assistant Professor, Mechanical Engineering Dept., BNMIT

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Sri. Manu A.S., Assistant Professor, Civil Engineering Dept., BNMIT

Dr. Roopa G., Assistant Professor, Mathematics Dept., BNMIT

Dr. Yogalakshmi S., Assistant Professor, Mathematics Dept., BNMIT

Call for Papers

High quality, state-of-the-art, original research papers are invited from researchers, industry professionals, academicians and students. The abstract should include title, author names and affiliations along with the corresponding authors email and restricted to 200 words. Template for abstract submission may be downloaded from the conference website and send by the email to icasam2025@bnmit.in. participants need to register for the conference using the link provided in the website : <https://icasam.bnmit.in/>

Conference theme

1. Nanomaterials
2. Polymers and composites
3. Smart materials and their applications
4. Multifunctional coatings and thin films
5. Phase-change and shape-memory materials
6. Magnetic and optoelectronic materials
7. 3D and hybrid materials
8. Energy harvesting and storage (batteries, supercapacitors, solar cells)
9. Photocatalysis and electrocatalysis
10. Hydrogen and fuel cells
11. Drug delivery systems and tissue engineering scaffolds
12. Sensors
13. Bioactive polymers and hydrogels
14. Materials in regenerative medicine
15. Materials modeling and simulation
16. Machine learning and AI in materials discovery
17. Advanced manufacturing and 3D/4D printing
18. Metamaterials and photonic crystals
19. Space and aerospace materials
20. Wearable and flexible electronics
21. Nano and smart fluids
22. Electric and Semiconducting materials
23. Advanced material processing and Manufacturing
24. Magnetohydrodynamics
25. Computational Fluid Dynamics
26. Mathematical Modelling of Fluids
27. Corrosion science
28. Ceramics and Glasses
29. Surface engineering
30. Materials for display and security applications
31. Photophysical properties of materials
32. Convective heat transfer
33. Graph theory
34. Sustainable and Green Technologies.

Note: The conference scope is not limited to the above topics

Journal Publications: Authors of selected abstracts will be invited to submit their full-length papers for publication in a reputed journal. Further details regarding the journal will be communicated shortly.

Registration Fee Details:

Faculty: Rs.2000

Students (UG/PG): Rs.1000

Industry representatives: Rs. 4000

Foreign Delegates: USD 200

Note: Publication Charges: Rs.8000

Registration fee has to be paid online via NEFT/RTGS only

Bank Name : Canara Bank

A/C Name : BNMIT Maths

A/C Number : 1147101032831

MICR Code : 560015006

IFSC Code : CNRB0001147

Branch : Sevakshethra, BSK II Stage

Resource Persons



Prof. E. S. Dwarakadasa

Emeritus Professor
Material Science Division
IISc, Bengaluru



Prof. R. Shabadi

Associate Professor
Universite Lille
Villeneuve d'Ascq, France



Dr. Rajan Ambat

Professor
Technical University of Denmark
DK 2800 Lyngby, Denmark



Mr. Kashinath Patna Shetty

ACE Design Ltd.
A Global Machine Tool Group



Dr. T. Ram Prabhu

Assistant Director
DRDO



Dr. S.T. Aruna

Chief Scientist
Surface Engineering Division
CSIR-National Aerospace
Laboratories Bengaluru



Dr. M. R. Sanjay

Principal Research Scientist
King Mongkuts University of
Technology North Bangkok
Thailand



Dr. C. S. Ramesh

Dean of Research & Innovation
Sapthagiri NPS University
Bengaluru



Dr. Sarbari Bhattacharya

Associate Professor
Department of Physics
Bangalore University



Dr. Neha Paddillaya

Ph.D. in Bioengineering
Postdoctoral Researcher
Dept. of Mechanical Engineering
IISc., Bangalore

Contact Details:

Technical Enquiries:

General Chair ICAMFM-2023

Dr. B. S. Anil Kumar : 9844463770

Dr. K. N. N. Prasad : 9448736843

Dr. B. S. Prathibha : 9686466499

Dr. L. Venkata Reddy : 9448768850

E-mail: icasam2025@bnmit.in

Registration and General Enquiries

Dr. Raghavendra N. : 9844550048

Dr. S. Balasaraswathy : 9538835130

Dr. Prashanth M. K. : 9448231937

Dr. N. P. Chandrashekara : 9448537975



Auditorium Block, BNMIT