



**AMRITA**  
VISHWA VIDYAPEETHAM  
DEEMED TO BE UNIVERSITY UNDER SECTION 5 OF UGC ACT, 1956

**COIMBATORE  
CAMPUS**

International Conference on  
Advances and Applications of  
Numerical Analysis  
**(ICAANA – 2025)**  
21 - 23, July 2025



## ABOUT THE CONFERENCE

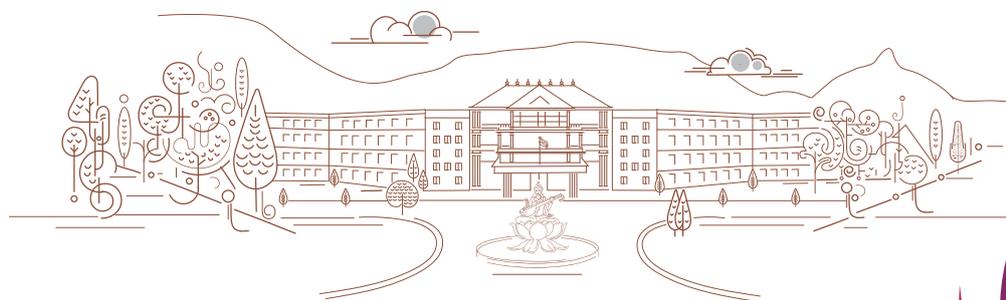
The primary objective of this conference is to bring together leading researchers, academicians, and industry experts to discuss recent developments, methodologies, and applications in numerical analysis. The focus will be on fostering collaboration between theoretical research and practical applications in various scientific and engineering fields. The upcoming conference will explore a broad spectrum of topics within the field of numerical analysis, bringing together researchers, scholars, and practitioners to discuss recent advancements and methodologies. The event will focus on both theoretical developments and practical applications of numerical methods, with a special emphasis on interdisciplinary research.

## ABOUT THE INSTITUTION

### Amrita Vishwa Vidyapeetham

Amrita Vishwa Vidyapeetham is a multi-disciplinary, research-intensive, private university, educating a vibrant student population of over 24,000 by 1700+ strong faculty. Accredited with the highest possible 'A++' grade by NAAC, Amrita offers more than 250 UG, PG, and Ph.D. programs in Engineering, Management, and Medical Sciences including Ayurveda, Life Sciences, Physical Sciences, Agriculture Sciences, Arts & Humanities, and Social & Behavioral Sciences. Amrita has emerged as the seventh ranked university in the National Institutional Ranking Framework (NIRF) Rankings 2024. Amrita School of Medicine, Kochi has been ranked 6th Best in Medicine in NIRF Rankings 2023. In THE University Impact Rankings 2024, a pioneering initiative to recognise universities around the world for their social and economic impact for sustainable future, Amrita has been ranked among the Top 50 in the world.

[<https://www.amrita.edu/>]

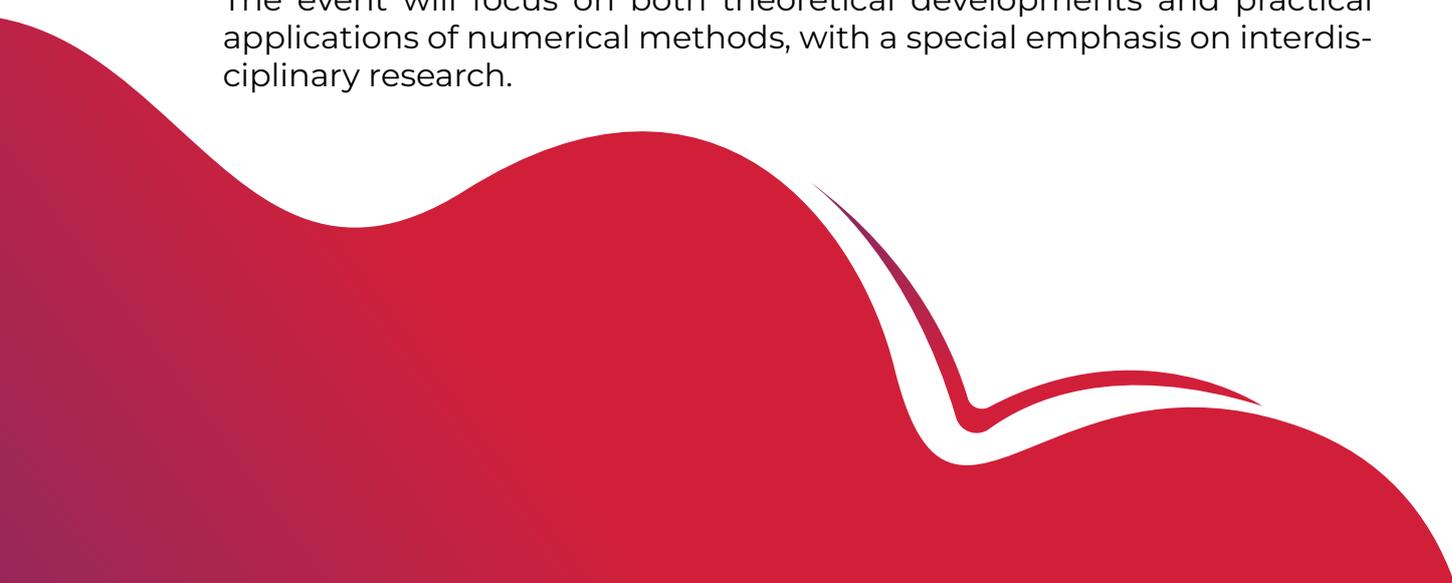


The Department of Mathematics established in the year 1994, the Department of Mathematics initially focused on offering Engineering Mathematics courses for both Undergraduate and Postgraduate Engineering Programmes. The Department aims to train a selected group of talented students for academic and professional careers requiring exceptional Mathematical and computational skills. Since 2003, the Department has been offering elective courses for Undergraduate and Postgraduate Engineering Programmes and advanced courses for Ph.D. Programme in the Engineering Departments. In the year 2004, the Department introduced Ph.D. Programme in Mathematics and Statistics. The main areas of research include Graph Theory, Wavelet Transforms, Magneto Hydrodynamics, Lie Algebra Bundles, Differential Equations, Numerical Analysis, Cryptography and Statistics. The aim of the Department is to pursue excellence in both research as well as in teaching. This has motivated the Department to introduce Five-Year Integrated MSc in Mathematics and Computing and also Two-Year MSc with specialization in Mathematics.

The Department of Mathematics also recognises the importance of higher education in Statistics, Data Analytics and Data Science for teaching, research and job opportunities in reputed educational institutions and also in conventional and software Industries. This has motivated the Department to introduce Two-Year MSc in Applied Statistics and Data Analytics and Logistic and supply chain management and also Five-Year Integrated MSc in Data Science.

In fact, these Programmes are designed for providing a strong foundation in the basics of Mathematics and Statistics, and consequently motivating them towards specializations for research/job in the Data Science field.

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## ABOUT THE CONFERENCE

- ▶ Numerical Linear Algebra
- ▶ Machine Learning/ Deep Learning/ Soft Computing in Numerical Analysis
- ▶ Big Data and Numerical Computation
- ▶ Approximation Theory
- ▶ Finite Element Methods (FEM)
- ▶ Numerical Solutions of Differential Equations
- ▶ Optimization Techniques
- ▶ Computational Fluid Dynamics (CFD)
- ▶ High-Performance Computing for Numerical Simulations
- ▶ Stochastic Processes in Numerical Methods

### Organizing Committee:

- ▶ **Dr. Sasangan Ramanathan**, Dean, Amrita Vishwa Vidyapeetham, Coimbatore.
- ▶ **Prof. Mahadevan S**, Principal, School of Physical Sciences, Amrita Vishwa Vidyapeetham, Coimbatore.
- ▶ **Prof. Somasundaram K**, Chairperson, Department of Mathematics, Amrita Vishwa Vidyapeetham, Coimbatore.
- ▶ **Dr. Deepa Gopakumar**, Vice Chairperson, Department of Mathematics, Amrita Vishwa Vidyapeetham, Coimbatore.

### Academic Advisory Committee:

- ▶ **Prof. R. Balakrishnan**, Adjunct Professor, Department of Mathematics, Bharathidasan University, Tiruchirappalli.
  - ▶ **Dr. S. Baskar**, Assistant Professor, Department of Mathematics, IIT, Mumbai.
  - ▶ **Prof. Higinio Ramos**, Professor, Universidad de Salamanca, Spain.
  - ▶ **Prof. S. Kesavan**, Retired Professor, Department of Mathematics, IMSc Chennai.
  - ▶ **Prof. Kapil Kumar Sharma**, Professor, South Asian University, New Delhi.
  - ▶ **Prof. Torsten LinB**, Professor, FemUnivesitat in Hagen, Germany.
  - ▶ **Prof. Roberto Garrappa**, Professor of Numerical Analysis, University of Bari, Italy.
  - ▶ **Prof. Sashikumaar Ganesan**, IISc, Bangalore, India.
  - ▶ **Prof. Katta Ramesh**, Deputy Dean, School of Mathematical Science, Sunway University, Malaysia
  - ▶ **Prof. (Mrs.) Dr. Rashmi Bhardwaj**, Guru Gobind Singh Indraprastha University, NewDelhi,India
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## Academic Technical Committee:

- ▶ **Dr. Abhishek Das**, Assistant Professor, VIT, Vellore.
  - ▶ **Dr. Anirudha Poria**, Assistant Professor, Department of Applied Mathematics, Xi'an Jiaotong–Liverpool University, China.
  - ▶ **Dr. S. Gowrisankar**, Associate Professor, Department of Mathematics, NIT, Patna.
  - ▶ **Prof. Jugal Mohapatra**, Professor, Department of Mathematics, NIT, Rourkela.
  - ▶ **Prof. Kailash C. Patidar**, Senior Professor, Department of Mathematics and Applied Mathematics, University of the Western Cape, South Africa.
  - ▶ **Dr. Kaushik Mukherjee**, Associate Professor, IIST, Thiruvananthapuram.
  - ▶ **Prof. A. K. Nandakumaran**, Chairman and Professor, IISc., Bangalore.
  - ▶ **Prof. E. Natarajan**, Professor, Department of Mathematics, IIST, Thiruvananthapuram.
  - ▶ **Prof. Natesan Srinivasan**, Professor, Department of Mathematics, IIT, Guwahati, Assam.
  - ▶ **Prof. Neela Nataraj**, Institute Chair Professor, IIT Bombay, Mumbai.
  - ▶ **Dr. Pratibhamoy Das**, Assistant Professor, Department of Mathematics, IIT, Patna.
  - ▶ **Prof. V. Raghavendra**, Professor, IIT, Tirupathi.
  - ▶ **Prof. G. P. Raja Sekhar**, Professor, Department of Mathematics, IIT, Kharagpur, West Bengal.
  - ▶ **Prof. Raju K. George**, Outstanding Professor, Dean, Department of Mathematics, IIST, Thiruvananthapuram.
  - ▶ **Prof. P. Saikrishnan**, Professor, Department of Mathematics, NIT, Tiruchirappalli.
  - ▶ **Prof. V. Shanthi**, Professor, Department of Mathematics, NIT, Tiruchirappalli.
  - ▶ **Dr. V. Subburayan**, Associate Professor, SRM University, Kattankulathur-Chennai.
  - ▶ **Prof. A. Tamilselvan**, Professor, Bharathidasan University, Tiruchirappalli.
  - ▶ **Dr. T. Valanarasu**, Associate Professor, Bharathidasan University, Tiruchirappalli.
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## Conveners:

- ▶ **Dr. A. Ramesh Babu**, Amrita Vishwa Vidyapeetham, Coimbatore.
- ▶ **Dr. Sekar E**, Amrita Vishwa Vidyapeetham, Coimbatore.
- ▶ **Dr. Lolugu Govindarao**, Amrita Vishwa Vidyapeetham, Coimbatore.

## CALL FOR PAPERS

The authors are encouraged to submit their original research works for presentation and it will also be considered for possible publications in one of the SCOPUS indexed journals Springer, IOP and Taylor and Francis (will be finalized soon) and by registering themselves after the notification. Please note that the submitted papers will be accepted for publication in special issues only after thorough scrutiny and peer review process as per Journal directions.

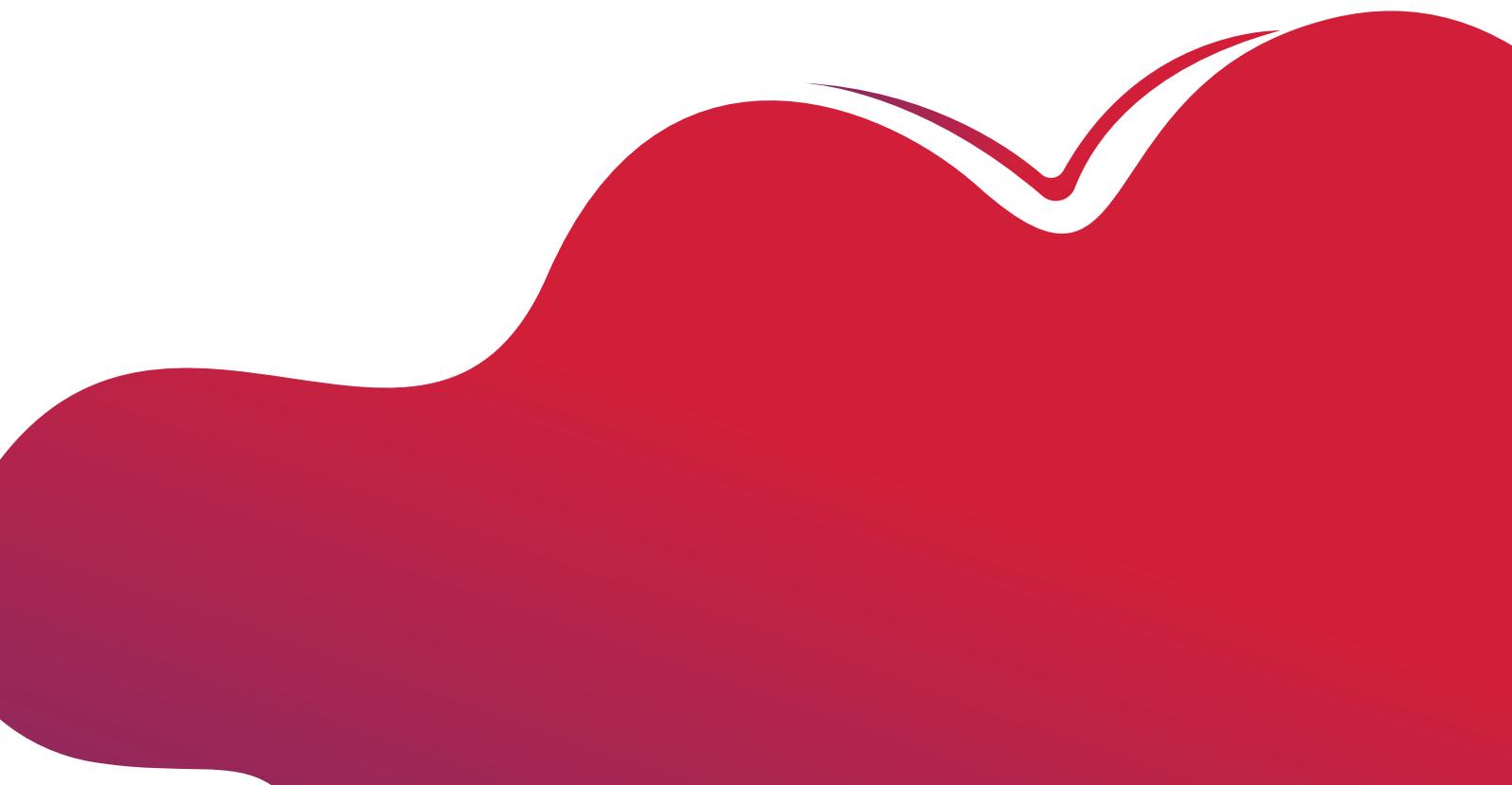
## PUBLICATION

All presented paper after peer review process will be published in Scopus Indexed conference proceedings. The publication details are available in the conference website soon.

At least one author of any accepted abstract must register and present the paper in the conference. Otherwise, the paper will not be processed further for publication.

<https://www.amrita.edu/events/icaana-2025/>

Best paper will be selected and awarded



## REGISTRATION DETAILS

The registration fees include GST amount (18%)

Category	National Participanta [Rs.]	International Parti [USD]
Student [PG/Research Scholars]	₹ 3540 (₹ 3000 + ₹540 GST)	\$ 150
Faculty Post Doc/Scientist	₹ 4720 (₹ 4000 + ₹720 GST)	\$ 200
Industry	₹ 5900 (₹ 5000 + ₹900 GST)	\$ 250

Registration fees include conference kits and lunch. Only one paper presentation is allowed for one registration. Accommodation shall be arranged on payment basis and details of it are shown in the website. The paid fee will not be refunded under any circumstances.

For more details regarding registration, payment and sponsorship, please visit website

## IMPORTANT DATES

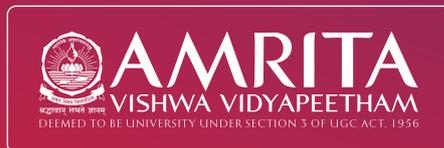
Start date for Abstract Submission	15th March , 2025
Last date for Abstract Submission	15th May, 2025
Abstract Acceptance	30th May, 2025
Last Date for Early Bird registration	25th June, 2025
Last Date for Registration	10th July, 2025
Dates of Conference	21st - 23rd July, 2025
Full Paper Submission	2nd August, 2025

Payment link will be mailed to all the registered participants after the acceptance of the registration.



## Preregistration / Abstract submission Link and QR Code:

<https://shorturl.at/B79je>



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### CONTACT

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