



# International Conference on Connecting Theory and Practice in Mathematics, Statistics and Data Science

Organized by: Department of Mathematics, School of Advanced Sciences, (VIT-AP) University  
in collaboration with

*The Department of Mathematics and Statistics, Faculty of Science and Technology,  
The University of the West Indies, St. Augustine, West Indies*

**15<sup>th</sup> - 17<sup>th</sup>**

**March 2025**  
**[Virtual mode]**

## About University

Vellore Institute of Technology-Andhra Pradesh (VIT-AP) University, located in Amaravati, India, is part of the renowned VIT Group of Institutions. Established in 2017, VIT-AP quickly became a prominent educational institution, offering a wide range of undergraduate, postgraduate, and doctoral programs in fields like engineering, science, business, and humanities. The campus boasts modern infrastructure, state-of-the-art classrooms, well-equipped labs, a vast library, sports facilities, and comfortable residential facilities, fostering both academic and extracurricular growth. Emphasizing research and innovation, VIT-AP has established centers focusing on AI, robotics, data science, and renewable energy. Strong industry ties facilitate internships, projects, and placements, preparing students for successful careers. With vibrant student life, numerous clubs, and international exposure opportunities, VIT-AP is dedicated to providing transformative education and holistic development.

## About The School of Advanced Sciences, VIT-AP University

The School of Advanced Sciences (SAS) is one of the seven Schools of VIT-AP University and it houses the Departments of Mathematics, Physics, and Chemistry. Here, students are taught how to think critically through project-based learning (PBL) and not merely what to think. Students are encouraged to question, explore, and research throughout their studies, ranging across the various discipline of sciences. Our School aims to provide a solid foundation in Natural Sciences, projecting the recent scientific and technological developments to the graduate, postgraduate, and Ph.D students. We aspire to be a valuable contributor towards the nation's growth by producing highly skilled professionals and by engaging in cutting-edge research. SAS earnestly pursues a vision of providing local, regional, national, and international leadership in research and technology development. We believe in quality of education and research with ethical and professional standards for better tomorrow. Here, students make their choices based on their preferences and requirements that equip them with a balance of logical-thinking and problem-solving skills, which are essential to tackle today and tomorrow's professional challenges.

First date of manuscript/ Abstract submission: 15th October 2024

Last date of manuscript/ Abstract submission: 20th February 2025

Notification of Acceptance/Rejection: 25th February 2025

## **About the Department of Mathematics, VIT-AP University**

The Department of Mathematics has around 70 faculty members and promotes novel perspectives to research with focus that transcends the undergraduate and postgraduate levels in Data Science. All faculty members are doctorates and are actively in research activities in addition to their regular teaching activities. The department is instrumental in setting stochastic standards and contributes holistically in developing young engineers and scientists. The department strives to explore new and emerging transdisciplinary knowledge domains such as Fluid Dynamics, Computational Fluid Dynamics, Solid Mechanics, Functional Theory, Network and Graph Theory, Fractal Theory, Lie Algebras, Statistics, Stochastic Processes, Coding Theory, Theory of Computation, Fuzzy Logics, Optimal Control Problems, Numerical Methods, and Cosmology. The Department has already organised several conferences and workshops.

## **About Conference**

The International Conference on Mathematics, Statistics, and Data Science aims to bring together leading academic scientists, researchers, and research scholars to exchange and share their experiences and research results on all aspects of Mathematics, Statistics, and Data Science virtually. It also provides a premier interdisciplinary platform for researchers, practitioners, and educators to present and discuss the most recent innovations, trends, and concerns as well as practical challenges encountered and solutions adopted in these fields. In today's data-driven world, the fusion of mathematics, statistics, and data science is essential for pushing the boundaries of research and development. The integration of these disciplines enables breakthroughs in various domains, including healthcare, engineering, economics, social sciences, and technology. The conference is committed to providing a rich and immersive experience that will leave participants with valuable knowledge, connections, and inspiration to drive their work forward. We look forward to welcoming you to this landmark event and to the vibrant discussions and collaborations that it will undoubtedly foster.

## **About The Department of Mathematics and Statistics, The University of the West Indies**

The University of the West Indies at St. Augustine is a public research university in St. Augustine, Trinidad and Tobago. It is one of 5 general campuses in the University of the West Indies system, which are ranked 1st in the Caribbean. It is ranked 1st in Trinidad and Tobago and 28th best in Latin America. The Department of Mathematics and Statistics is part of the Faculty of Science & Technology, The University of the West Indies. The Department provides an outstanding education. We aspire to excellence in basic and applied research, and to be a source of expert professional skill and advice in Mathematics, Statistics and their applications. We offer postgraduate degree programmes in Mathematics and Statistics at the MSc, MPhil and PhD levels, and undergraduate degrees in Mathematics, Actuarial Science and Statistics/Economics.

## **Objectives**

- To promote and facilitate the exchange of ideas and collaboration among researchers and professionals in the fields of Mathematics, Statistics, and Data Science.
- To present and discuss the latest developments, trends, and challenges in the fields.
- To provide a forum for the dissemination of research findings, innovations, and best practices.
- To foster networking and collaboration among participants from academia, industry, and government.

## **Conference Themes**

The conference will cover a broad range of topics, including but not limited to:

- Mathematical Modelling and Analysis
- Statistical Methods and Applications
- Data Science Techniques and Tools
- Machine Learning and Artificial Intelligence
- Big Data Analytics
- Computational Mathematics
- Biostatistics and Bioinformatics
- Data Visualization and Interpretation
- Applications of Mathematics and Statistics in Various Fields (e.g., Engineering, Medicine, Social Sciences)

**Target Audience are:** Academicians and Researchers, Industry Professionals, Students, Policymakers and Government Officials

### **Important Dates:**

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### **Publication**

A special issue will be released from the Gulf Journal of Mathematics (Scopus Indexed) for which the authors will submit the manuscripts for possible publications.

### **Registration Fee Details:**

Category	Early Bird		Delayed Registration	
	Indian	Foreign	Indian	Foreign
Participation only	500 INR	8 USD	700 INR	10 USD
Full Length Paper Presentation (Research Scholar)	2000 INR	30 USD	2500 INR	35 USD
Full Length Paper Presentation (Faculty)	2500 INR	35 USD	3000 INR	40 USD
Full Length Paper Presentation (Industry Professionals )	3000	40 USD	3500	45 USD

\* Article publication charges will be applicable as per respective journal policy

## **Invited International Speakers**

**Dr. Firuz Kamalov** Canadian University Dubai, UAE

**Dr. Ambreen Shafqat**  
Roswell Park Comprehensive Cancer Center, Buffalo, NY 14263, USA

**Dr. Shinjini Nandi**  
Montana State University, Bozeman, MT, USA

**Dr. Zainab Asim**  
Tecnológico de Monterrey, Mexico

**Dr. Sreedhara Rao Gunakala**  
The University of the West Indies

**Dr. Patrick Hosein**  
The University of the West Indies

## **Invited National Speakers**

**Dr. Snehashish Chakravarty**  
Professor HAG, NIT Rourkela.

**Dr. Mubashirunnissa**  
Associate Professor,  
Department of Mathematics, VIT Vellore

**Dr. Sudhakar Chaudhary**  
Associate Professor, IITRAM, Gujarat

**Dr. Yamuna**  
Professor,  
Department of Mathematics,  
VIT Vellore

**Dr. Samala Rathan**  
Assistant Professor, IIPE, Visakhapatnam

**Dr. Murugusundaramoorthy G**  
Professor Higher Academic Grade,  
Department of Mathematics, VIT Vellore

**Dr. Nitin Kumar**  
Assistant Professor,  
Department of Mathematics, IIT Jammu

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The University of West Indies

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