4th International Conference on Applied Mathematics in Science and Engineering (AMSE - 2025)

28th- 30th August, 2025

Organized by

Department of Mathematics
Faculty of Engineering and Technology, ITER

Siksha 'O' Anusandhan

(Deemed to be University)
Bhubaneswar – 751030, Odisha, India

Co-organized by

Department of Mechanical Engineering
National Institute of Technology
Arunachal Pradesh, India

About SOA (Deemed to be University)

Siksha 'O' Anusandhan (Deemed to be University), Bhubaneswar, declared U/S 3 of the UGC Act, 1956, is a leading university in India offering professional programs in the disciplines of Engineering, Medicine, Dental Science, Nursing, Pharmaceutical Science, Biotechnology, Management, Law, Hotel Management, Agricultural Sciences, and Veterinary Science. SOADU was reaccredited by **NAAC** with an **A++ grade** (highest grade) in **2022** also approved by **UGC, AICTE, and NBA**. Today, Siksha 'O' Anusandhan (Deemed to be University) has emerged as one of the fastest-growing universities in the country. The university has been ranked among the top **14th** best in the country in the University category, **24th** best as an Overall Institute, **26th** best in the Engineering category, **21st** best in the Medical College category, **9th** best in the Dental College category, **9th** best in the Law category, **50th** best in the Research category, and **62nd** best in the Management category in the country by the National Institutional Ranking Framework (NIRF) of the Ministry of Human Resource Development (MHRD), Government of India in 2024. In **The Times Higher Education World Reputation Ranking 2025**, for first time Siksha 'O' Anusandhan spot in the **201-300** range.

About NIT Arunachal Pradesh

The NIT Arunachal Pradesh was inaugurated on 18th August 2010 as a member of a group of 10 new NITs. The institute started functioning at its temporary campus in Yupia from 18th August 2010. Since August 2021, the institute has been functioning at its permanent campus in Jote, Itanagar.

Vision: To transform into an acclaimed institution of higher learning, creating an impact on the northeastern region of India through innovation and entrepreneurship.

About the Conference

The objective of the 4th International Conference on Applied Mathematics in Science and Engineering (AMSE-2025) is to provide a forum for researchers and professionals from both academia and industry to exchange the latest knowledge and experiences in various fields of applied mathematics. The conference will focus not only on the theoretical aspects but also on the applications of mathematics in several areas. It will also provide researchers with an opportunity to present their novel findings in front of the scientific and mathematical community, stimulating meaningful debates and enabling in-depth discussions. This conference aims to include invited talks by distinguished speakers, followed by paper presentations by various researchers.

CONFERENCE VENUE : CAMPUS-1, FE&T (ITER)

CONFERENCE HISTORY

We have successfully conducted three international conferences at ITER, Siksha 'O' Anusandhan (Deemed to be University), Bhubaneswar, India. The 1st International Conference on Applied Mathematics in Science and Engineering (AMSE-2019) was held during October 24–26, 2019. It was jointly organized by Siksha 'O' Anusandhan (Deemed to be University) and the National Institute of Technology, Arunachal Pradesh. All the selected papers were published in the **Springer book series** *Recent Trends in Applied Mathematics*, a part of Lecture Notes in Mechanical Engineering. The 2nd International Conference on Applied Mathematics in Science and Engineering (AMSE-2022) was held during March 24–26, 2022. All the selected papers were published in *AIP Conference Proceedings*, AIP Publishing. The 3rd International Conference on Applied Mathematics in Science and Engineering (AMSE-2024) was held during July 25–27, 2024. All the selected papers were published in the **CRC book** series *Design Optimization Using Artificial Intelligence* and a special issue of the *Journal of Interdisciplinary Mathematics*.
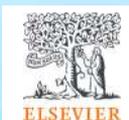
CALL FOR PAPERS

Students, faculty members, research scholars, scientists, and industrial executives are welcome to submit their one-page abstract on any of the following topics:

- **Nonlinear Dynamics and its Applications**
- **Differential Equations and its Applications**
- **Computational Fluid Dynamics**

Publication Details

All accepted abstracts will be published as conference proceedings. All papers must be original and should not have been submitted to other journals or conferences. The presented papers at the mentioned conference will undergo a peer-review process, and the selected papers will be published in AIP Conference Proceedings (Scopus-indexed).

Publication Partners

AIP Publishing

ELSEVIER

Submission of the Abstracts and Full-length Papers

Interested authors can submit abstracts of up to 250 words in MS Word using their Microsoft CMT account. **The abstract and AIP paper templates are available on the conference website.** Acceptance of the abstract will be notified via email. Authors of selected abstracts must submit the full-length paper with a similarity report not exceeding 15%, in MS Word or LaTeX format only, using the same Microsoft CMT account.

For Important Dates

Call for abstract	10 March-30 June, 2025
Acceptance of abstract notification	15 July, 2025
Full-length paper submission	1 June to 31 July, 2025
Early bird registration	1 to 31 July, 2025

Accommodation will be provided on a first-come, first-served basis.

Accommodation will be provided for participants on a first-come, first-served basis in the student hostel for both boys and girls within Campus-1, ITER. For faculty participants, we will provide twin-sharing rooms in the guest house.

AMSE-2025 IS IN HYBRID MODE

For Abstract Submission

For Registration

For more information, please visit the conference website:
https://amse.cc/

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Registration Fees on and before 30th July, 2025

CATEGORIES	NON-INDIAN	INDIAN
Academicians	USD 200	INR 4000
Scholars	USD 100	INR 3000
Students	USD 75	INR 2000
Listeners	USD 50	INR 1000

Keynote and Plenary Speakers

1. **Prof. Katta Ramesh**, Department of Pure and Applied Mathematics, Sunway University, Malaysia.

2. **Prof. Bankim Chandra Mandal**, Mathematics Department, IIT Bhubaneswar, India.

3. **Prof. Rupanwita Gayen,** Mathematics Department, IIT Kharagpur, India.

4. **Prof. Sachin Kumar,** Mathematics Department, University of Delhi, (North Campus).

5. **Prof. Sunil Kumar,** Mathematics Department, NIT Jamshedpur, India.

6. **Prof. K. S. Nisar,** Mathematics Department, Prince Sattam Bin Abdulaziz University, Alkharj, Saudi Arabia.

7. **Prof. Md. Golam Hafez,** Chittagong University of Engineering & Technology, Bangladesh.

8. **Prof. O. D. Makinde,** Applied and Computational Mathematics, Stellenbosch University, South Africa.

9. **Prof. Ram Narayan Mohapatra,** University of Central Florida, United States.

10. **Prof. Rashmi Bhardwaj,** Nonlinear Dynamics Lab, GGSIPU, Delhi, India

11. **Prof. Swaroop Nandan Bora,** Mathematics Department, IIT Guwahati, India.

12. **Prof. Varsha Daftardar-Gejji,** Mathematics Department, Savitribai Phule Pune University, India.

13. **Prof. Prasannakumara B. C.,** Department of Studies and Research in Mathematics, Davangere University, India

14. **Prof. Ioannis Kourakis,** Department of Mathematics, Khalifa University, Abu Dhabi, UAE

15. **Prof. Nareshpal Singh Saini,** Department of Physics, Guru Nanak Dev University, Amritsar, India

16. **Prof. Deepak Prasad Subedi,** Department of Physics, School of Science, Kathmandu University, Nepal

17. **Prof. Clemente Cesarano,** UniNettuno University, Rome, Italy.

18. **Dr. Amar Prasad Misra,** Department of Mathematics, Visva-Bharati University, India.