



**A Three-Day International
Online Conference
on
Advancing Innovations
Through Mathematics :
A Journey Across
Disciplines (AITM - 2025)
08th – 10th September, 2025**



**Organized by
Department of Mathematics
in association with
Institution's Innovation Council (IIC-BEC)
Bapatla Engineering College::Bapatla
(Autonomous)
(Affiliated to Acharya Nagarjuna University)
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INTRODUCTION:

The Advancing Innovations Through Mathematics: A Journey Across Disciplines (AITM - 2025) : A Three-Day International online Conference is designed to promote the application of mathematical principles across a broad spectrum of fields. This conference aims to foster interdisciplinary collaboration between mathematics and various domains, including Engineering, Technology, and Sciences to address the pressing challenges of today's world.

The event brings together researchers, professionals and educators to present their innovative work, exchange ideas, and explore how mathematics can solve real-world problems.

OBJECTIVES:

- To provide a platform for presenting cutting-edge research and sharing mathematical advancements across various fields.
- To promote interdisciplinary collaboration between mathematics and other disciplines to create solutions for global challenges.
- To offer opportunities for faculty and students to deepen their understanding of advanced mathematical concepts and their real-world applications.

CALL FOR PAPERS:

We invite papers on the following key areas of Mathematics and their applications (**not limited to**):

- **Statistical Analysis & Probability Theory:** Vital for Data Science, Machine Learning, AI, Biostatistics, and Social Sciences in data analysis and decision-making under uncertainty.
- **Graph Theory:** Used in Computer Science, Civil Engineering, and Biology for understanding complex networks and structures.
- **Linear Algebra:** Applications in Electrical Engineering, Robotics, Quantum Computing, and Cryptography for solving equations and transforming data.
- **Differential Equations:** Essential in Physics, Biology, and Engineering for modeling dynamic systems and predicting behavior over time.

- **Numerical Methods:** Crucial in Engineering for simulations and solving complex mathematical problems like computational fluid dynamics (CFD).
- **Mathematical Modeling:** Key in Environmental Engineering, Civil Engineering (structural design), and Medicine for simulating real-world systems.
- **Analysis:** Widely used in Mathematical Physics, Engineering, and Economics for understanding continuity, limits, and function behavior in complex systems.
- **Algebra:** Foundational in Cryptography, Coding Theory, Theoretical Computer Science, and Control Systems for solving structural and symmetry-related problems, Fuzzy sets and Boolean algebras.

ABOUT THE COLLEGE:

Bapatla Engineering College (Autonomous) is one of the seven Educational Institutions founded and run by BAPATLA EDUCATION SOCIETY. The society was established in the year 1962 registered No:58/1962 under societies act XXI of 1860 with the objectives to ensconce and run the Educational & Cultural Institutions. The college was established in 1981 with a total of 44 years of service to the nation.

- The college runs 27 programs in both UG and PG.
- The college is one of the "Oldest Institutions in the State of Andhra Pradesh".
- The college is widely acclaimed for its meticulous planning, resource scheduling and Institutional management. The college has autonomous status with NAAC 'A+' and ISO accreditation.

ABOUT THE DEPARTMENT:

The Department was established in the year 1981 in which the college was started and have well qualified, experienced and motivated faculty in different specialized areas. The Department was originally intended to cater the needs of Engineering students.

The Department was recognized as a Research Centre by Acharya Nagarjuna University in the Academic year 2003-04. So far 3 Ph.D's and 10 M. Phil's were awarded.

SPECIAL FEATURES OF DEPARTMENT OF MATHEMATICS:

Total Number of Papers Published	: 212 +
Total Number of Events Attended/Presented	: 250 +
Total Number of Books/Chapters Authored	: 17
Total Number of Books Edited	: 250 +
Total Number of Professional Body Memberships	: 20 +

IMPORTANT DATES:

Last date of submission of abstract: **20-08-2025**

Intimation of acceptance of abstract: **22-08-2025**

Last date for payment of registration fee & submission of full length paper: **25-08-2025**

Last date for submission of PPT: **01-09-2025**

REGISTRATION LINK :

<https://forms.gle/VzhCYBF86airqGZh8>

Scan to Register



Please send Abstract/Full Length paper to aitm.2025@becbapatla.ac.in

All submitted abstracts and selected full length papers will be published in conference proceedings with ISBN number after peer review

REGISTRATION FEE:

	PG Student/ Research Scholar	Faculty	Industry
Presentation with Abstract Publication	Rs.400	Rs. 600	Rs. 1000
Presentation with Publication of full length paper	Rs. 1000	Rs. 1000	Rs. 1000
For Participatiopn only	Rs. 300	Rs. 300	Rs. 500
For Other Country	\$ 50	\$ 100	\$ 100

CERTIFICATE:

Upon successfully attending all the sessions and submitting daily feedback forms, participants will receive an e-certificate

The payment can be made by electronic money transfer as per the following details

Beneficiary Name: **Mrs. S. Venkata Vasavi**, Asst. Prof,
Dept. of Maths, BEC
Account Number: **30582156279**
Name of the Bank: **State Bank of India**
IFSC Code: **SBIN0010357**
The payment can also be made
through G-Pay or Phone Pay @ **8019296531**



RESOURCE PERSONS:

- **Dr. P.A. Lakshmi Narayana**
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FOR FURTHER DETAILS CONTACT:

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PATRONS OF THE CONFERENCE:

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