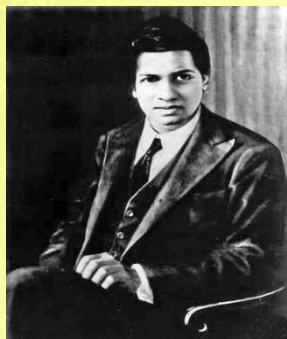




**A One Week online International
Workshop on
Mathematics: Bridging Ideas and
Innovations (MBII-2025)
15th – 20th, December-2025**



Srinivasa Ramanujan
A Great Indian Mathematician
(1887-1920)

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

In view of 138th Birth Anniversary Celebrations of a Great Mathematician Sri Srinivasa Ramanujan, the Department of Mathematics, Bapatla Engineering College, Bapatla will be organizing 'A One Week Online International Workshop on Mathematics: Bridging Ideas and Innovations (MBII-2025)' on the occasion of National Mathematics Day, in association with Institution's Innovation Council (IIC-BEC) from 15th – 20th December, 2025 from 3 PM to 5 PM through virtual mode.

In this One week Online International Workshop we link the gap between the theoretical knowledge in Mathematics and it's practical applications. It was designed to cater the needs of engineering students in various engineering branches. This programme aims to elevate the computational skills and also lays foundation for innovative problem-solving methods.

In the fast-growing field of Engineering, Computational skills have become the cornerstone of innovation and progress. Hence join with us for an immersive experience that goes beyond text books, equipping you with the tools to navigate real-world challenges through the lens of advanced Mathematics. This international workshop will definitely redefine the way in which the students perceive and apply mathematics in their engineering journey.

The workshop will provide a valuable opportunity for all engineering students to understand and enrich their knowledge of computational and logical skills in Mathematics and statistics with the inspiring lectures of our Resource Persons.

OBJECTIVES:

- To foster a culture of continuous learning in student community by familiarizing the applications of Mathematics in various fields of Engineering.
- To enhance the problem solving skills and logical thinking capabilities of students through expert lectures of resource persons from National and International Universities.
- To convert young engineers into strong individuals in order to face the real world challenges by exposing them with variety of lectures both in Mathematics and statistics in different domains.

TOPICS TO BE COVERED:

- A Mathematical Key for Understanding Quantum Computing in AI Era.
- Mathematics of Transformers.
- Role of Mathematics in Technology.
- Differential Equations for Engineers
- Mathematics Behind Data Science: The Secret Engine of Today's Tech Innovations.
- Foundations of Large Language Models.

CONTENT DELIVERY:

Renowned resource persons from various prestigious academic institutions will deliver lectures to motivate the students for enriching their Computational and logical thinking skills in Mathematics & Statistics with their vast experience in the field of Engineering Education.

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 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+', got NBA Accreditation (CE, CSE, ECE, EEE, IT & MECH) 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, offered M.Sc. (Mathematics) course with an intake of 40 students in 1989.

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

SPECIAL FEATURES OF DEPARTMENT OF MATHEMATICS

Total No. of Papers Published	: 212 +
Total No. of Events Attended/Presented	: 250 +
Total No. of Books/Chapters Authored	: 15
Total No. of Books Edited	: 250 +
Total No. of Professional Body Memberships	: 20 +

Registration

- ✓ **There is NO REGISTRATION FEE to attend the International Workshop**
- ✓ **B. Tech Students of AICTE approved Higher Education Institutions can attend the International Workshop.**
- ✓ **Last date of Registration to Workshop is 13-12-2025 before 5 P.M.**

Please use the following link/QR Code for Registration:



<https://bit.ly/MBII-2025>

Certificate

Upon successfully attending all the sessions and submitting daily feedback forms, participants will receive e-certificate of the Online International Workshop.

RESOURCE PERSONS

- **Dr. R.V.S.S.N. Ravi Kumar,**
Professor, Dept. of Physics,
Acharya Nagarjuna University,
Nagarjuna Nagar, Guntur District, A. P.
- **Dr. M. A. S. Srinivas,**
Professor Emeritus, Dept. of Mathematics,
**JNT University College of Engineering,
Science and Technology, Hyderabad.**
- **Dr. Nagarani Ponakala,**
Associate Professor, Dept. of Mathematics,
The University of West Indies, Mona Campus,
Jamaica. West Indies.
- **Dr. T. Ramalingeswara Rao,**
Senior Data Scientist, Advanced Quantz
Analytics(AQUA), **BFSI A&I, TCS**
- **Dr. L. Jeganathan,**
Professor (HAG), School of Computer Science
and Engineering,
Vellore Institute of Technology, Chennai.
- **Sri N.V.R.D. Kumar,**
Senior Instructor, Dept. of General Education,
Horizon University College,
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For Further Details Contact

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Sri. Karumanchi Venkata Rao

Vice-President-1, Bapatla Education Society, Bapatla.

Sri. Parepalli Chandra Sekhar

Vice-President-2, Bapatla Education Society, Bapatla.

Sri. Manam Nageswara Rao

Secretary, Bapatla Education Society, Bapatla.

Sri. Doppalapudi Venkaiah Chowdary

Joint Secretary, Bapatla Education Society, Bapatla.

Sri. Kota Veera Brahmaiah

Treasurer, Bapatla Education Society, Bapatla.

Patron:

Dr. N. Rama Devi

Principal, Bapatla Engineering College, Bapatla.

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Associate Professor & Head,
Dept. of Mathematics, BEC

Co - Convener:

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Professor, Department of Mathematics, BEC.

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Dr. M. Balaiah

Assistant Professor, Department of Mathematics, BEC.

Staff Organizers:

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Assistant Professor, Department of Mathematics, BEC.

Mrs. M. Anitha,

Assistant Professor, Department of Mathematics, BEC.