





NATIONAL CONFERENCE

on

"Recent Trends in Mathematical and Computational Sciences" (RTMCS-2025)

November 28-29, 2025









Organized by

P.G. Department of Mathematics

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Department of Computer Science & Information Technology Magadh University, Bodh Gaya -824234

(Under the aegis of IQAC, MU)

Sponsored by
Soft Computing Research Society (SCRS), New Delhi

About the University

Magadh University, Bodh Gaya, was established on March 1, 1962, as a result of the dedicated efforts and vision of the intellectuals and educationists of the Magadh region. **Prof.** (**Dr.**) **K. K.**

Dutta, a renowned academician and historian of international repute, was appointed as the first Vice-Chancellor of the University. The establishment of the campus was made possible through the generous contribution of **Shri Satanand Giri**, the respected Mahant of Bodh Gaya Math, who donated a vast tract of land at the request of

the then Education Minister. The foundation stone of the present campus was laid on August 20, 1964, by His Excellency **Dr. Sarvepalli Radhakrishnan**, the then President of India.

Today, Magadh University stands as one of the premier institutions of higher learning in Bihar, offering postgraduate programs in 22 subjects across the faculties of Science, Social Science, Humanities, and Commerce. In addition to its traditional academic programs, the University also offers a wide range of vocational and professional courses in areas such as Education, Physiotherapy, Information Technology, Management, Environmental Science, Library Science, and Biotechnology. With its commitment to academic excellence, research, and holistic development, Magadh University continues to serve as a center of knowledge and innovation, nurturing generations of scholars and professionals.

The present Vice-Chancellor, **Prof. Shashi Pratap Shahi**, has been a constant source of inspiration in reviving the glorious legacy of Magadh University. Under his dynamic leadership,

the University.

the University has strengthened its commitment to academic excellence and quality education. His visionary guidance has consistently encouraged faculty members to take initiatives in organizing and participating in conferences, seminars, and workshops at both national and international platforms. This National Conference is one such initiative, envisioned and realized under his motivation, continuing the tradition of scholarly engagement and intellectual growth at

About the Department

The PG Department of Mathematics at Magadh University was established in 1962. In its early years, postgraduate teaching began in a rented building, as the University did not yet have its own infrastructure. Dr. Shyam Sundar Prasad, transferred from Nalanda College, Bihar Sharif, was the first faculty member to join the Department. He was later joined by distinguished academicians including Dr. R. Shukla (Professor & Head), Dr. Shaligram Singh (Reader), Dr. Ziaul Hasan (Lecturer), and Dr. P. Tiwari (Lecturer). With the relocation of the University office to its permanent campus at Bodh Gaya on December 15, 1969, the Department of Mathematics also shifted to the new premises. The newly built facility provided a spacious, well-equipped environment that greatly enhanced teaching and research activities.

Over the decades, the Department has earned recognition for its significant contributions in diverse areas such as Set Theory, Topology, Algebra, Fuzzy Mathematics, Theory of Relativity, Fixed Point Theory, Topological Dynamics, Bio-Mathematics, and Differential Equations. It offers postgraduate programs as well as advanced research opportunities leading to Ph.D. and D.Sc. degrees, nurturing scholars who contribute meaningfully to the growth of mathematical sciences. The Department currently has nine faculty members, whose research and teaching interests span a wide spectrum of areas in both Pure and Applied Mathematics.

About the City

Gayaji (formerly known as Gaya) is revered as a sacred city of enlightenment and salvation. Counted among the world's oldest living cultural centers, it holds immense spiritual, historical, and cultural significance. The city is a confluence of traditions, drawing pilgrims, scholars, and travelers from across the globe for centuries. For Hindus, Gaya is one of the most

important pilgrimage sites, particularly renowned for the **Pind Daan** rituals performed on the banks of the holy Phalgu River.

For Buddhists, Bodh Gaya-just a few kilometers away-is a place of profound importance, where **Lord Buddha** attained enlightenment under the **Bodhi Tree**. This dual heritage has established Gayaji as a global destination of faith, peace, and learning.

Beyond its religious significance, the city reflects the richness of Indian culture and hospitality, offering visitors an opportunity to experience timeless traditions alongside modern development. With its unique blend of spirituality, history, and culture, Gayaji continues to inspire seekers of wisdom and knowledge from all over the world.

About the Conference

The conference aims to serve as a dynamic platform for academicians, researchers and industry experts to share, exchange, and disseminate their knowledge on recent developments and emerging trends in Pure Mathematics, Applied Mathematics, Computer Science, Physics, and Chemistry. By bringing together eminent researchers, leading academicians, and experts from across the country, the event aspires NATIONAL CONFERENCE environment intellectually stimulating foster an where to approaches can be discussed, debated, innovative ideas, methods, and and refined. A special focus will be placed on motivating and engaging young researchers and students, encouraging them to explore the frontiers of research and address real-world challenges through scientific inquiry.

Talks by domain experts, and Oral Presentations by participants. This rich blend of sessions is designed to ensure comprehensive coverage of both theoretical advances and practical applications, while also creating ample opportunities for learning, collaboration, and networking among attendees.

Expected Outcomes

The conference is expected to:

- Foster interdisciplinary collaboration by bringing together researchers, academicians, and industry professionals from diverse domains of Mathematical and Computational Sciences.
- Provide a platform for young scholars and early-career researchers to present their work, gain constructive feedback, and pursue advanced research with renewed motivation.
- Encourage the development of innovative methodologies and problem-solving approaches that address both theoretical and applied challenges.
- Inspire participants to explore emerging areas such as Artificial Intelligence, Data Science, Optimization, Modeling, and Simulation, and their applications to real-world problems.
- Strengthen the academic and research ecosystem by providing visibility to novel contributions and facilitating mentoring opportunities between senior and junior researchers.

Organizing Committee

Chief Patron: Prof. S. P. Shahi, Hon'ble Vice-Chancellor, M.U., Bodh Gaya

Patrons: Prof. B. R. K. Sinha, Pro Vice-Chancellor, M.U., Bodh Gaya

Dr. Binod Kumar Mangalam, Registrar, M.U., Bodh Gaya

Convener: Dr. Sunil Suman, Head/Incharge, Department of Mathematics, M.U., Bodh Gaya

Co-Convener: Dr. S. K. Tiwari, Associate Professor, Dept of Mathematics, M.U., Bodh Gaya

Organizing Secretaries: Dr. Amar Kishor, Department of Mathematics, M.U., Bodh Gaya

Dr. Kumar Vishal, Department of Mathematics, M.U., Bodh Gaya

Treasurer: Dr. Pintu Samanta, Department of Mathematics, M.U., Bodh Gaya **Members**:

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Dr. Prayag Prasad, Department of Mathematics, M.U., Bodh Gaya

Dr. Manoj Kumar Singh, Department of Mathematics, M.U., Bodh Gaya

Mrs. Nitisha Bharti, Department of Mathematics, M.U., Bodh Gaya

Dr. Dharmendra Kumar, Department of CS & IT, M.U., Bodh Gaya

Mr. Aditya Bharti, Department of CS & IT, M.U., Bodh Gaya

Tentative List of Resource Persons (subject to update)



Prof. Subir Das IIT (BHU), Varanasi



Prof. Nikhil Ranjan Pal ISI Kolkata



Prof. Jagdish Chand Bansal South Asian University, New Del



Dr. Debasis Das IIT Jodhpur



Dr. Jai Prakash BHU, Varanasi



Dr. Sanjeev A. Sahu IIT(ISM) Dhanbad



Dr. Rishav Singh IIT Patna

Conference Topics

The thrust areas of the conference include, but are not limited to, the following broad and emerging topics of Mathematical and Computational Sciences:

Algebra
Analysis
Artificial Intelligence
Big Data Analytics
Blockchain Technology
Cryptography
Cyber Security

Data Science
Deep Learning
Differential
Equations
Dynamical System
Fixed Point Theory
Fluid Dynamics

Functional Analysis
Fuzzy Logic and
Systems
Fuzzy Sets & its
Applications
IoT
Machine Learning

Mathematical Modeling
Mathematical Physics
Number Theory
Numerical Analysis
Optimization Techniques
Soft Computing
Theoretical Seismology

Advisory Committee

- Prof. S.N.P. Yadav "Deen", Dean Science, M. U., Bodh Gaya
- Prof. Upendra Kumar, Head, Deptartment of Geography, M.U., Bodh Gaya
- Prof. Vijay Kumar Verma, Head, Deptartment of Physics, M.U., Bodh Gaya
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- Dr. Ravi Kumar Singh, Head, Department. of Botany, M.U., Bodh Gaya
- Dr. Amit Kumar Singh, Head, Department of Environmental Science, M.U., Bodh Gaya
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- Prof. Mithilesh Singh, V.B.S. Purvanchal University, Jaunpur
- Prof. Anirban Das, U.E.M., Kolkata
- Prof. Roushan Kumar, Central University of South Bihar, Gaya
- Prof. Manoj Prakash Tripathi, U. P. College, Varanasi

- Dr. Md. Zeyauddin, Jubail Industrial College, Jubail, Saudi Arabia
- > Dr. Amit Kumar, IIT(BHU), Varanasi
- Dr. Navin Jha, U. P. College, Varanasi
- Dr. P. K. Gupta, NIT Silichar
- Dr. Anupam Priyadarshi, Banaras Hindu University, Varanasi
- Dr. Rakesh Kumar, IIT Mandi
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- > Dr. Lokesh Kumar, T.M.B.U, Bhagalpur
- > Dr. Shree Nath Sharma, S.S. College, Jehanabad
- > Dr. N. P. Singh, S.N. Sinha College, Jehanabad
- Dr. Md. Jawed Iqbal Khan, Mirza Ghalib College, Gaya
- Dr. Shyam Sunder Pd. Singh, S. N. Sinha College,Warisaliganj
- Dr. Manish Kr. Singh, J. J. College, Gaya
- Mr. Sudip Kumar, S. Sinha College, Aurangabad
- Dr. Saurabh Kr. Agrawal, Bharati Vidyapeeth College of Engineering, New Delhi
- > Dr. Amar Nath Chatterjee, K.L.S. College, Nawada
- Prof. K.B. Yadav, T. D. College, Jaunpur
- Dr. Amit Kumar Rahul, VIT Chennai

Call for Abstracts (Original Work only)

Abstract of original research work are invited from the interested researchers for presentation in this conference. Abstract should be in English, limited to 300 words along with title, affiliation and email id. Abstract must be sent through email to (rtmcs2025@gmail.com).

Text Format Microsoft Word

Title Limited to 250 characters in length. Use initial caps in the title; do not use all

caps

Author(s) Type all the author's names with initial caps. Include affiliations for all authors

Email Id Presenting author's e-mail address

Keywords Maximum 5 keywords **Abstract Body** Limited to 300 words

Important Dates

Registration Starts: 16.09.2025

Registration Ends (Early Bird): 20.11.2025

Spot Registration: 28.11.2025

| Registration Fee Details | | | |
|--------------------------|--|-------------------------|--------------------|
| Participants | Early Bird Registration up to 20.11.2025 | On Spot Registration | QR Code |
| Faculty/Scientists | 2000/- | 2500/- | (a) 1/3 (2/3 (a) 1 |
| Research Scholars | 1500/- | 2000/- | |
| M.Sc. Students | 500/- | 750/- | |
| Industry | 3000/- | 4000/- | |

The Registration fee includes Conference kits, Abstract book, Tea/Snacks and Lunch. **Note:** SCRS members will receive a 20% discount.

Bank Account Details

Account No: 5859558440

A/C Name: National Conference

Mathematics

Bank: Central Bank of India

Branch: Bodh Gaya, M.U. Campus

IFSC Code: CBIN0280045

Registration Form

• Fill up the registration form within due date [Click here]

https://tinyurl.com/RTMCS-2025

• Upload the abstract in appropriate field

Official Conference Website

https://rtms-conference-2025.netlify.app/

How to Reach

The campus of Magadh University, Bodh Gaya, is located on the Gaya–Dobhi Road, approximately 17 km from Gaya Railway Station and around 7 km from Gaya Airport. The town is well connected by air, rail, and road. Gaya Railway Station, situated on the main line of the Eastern Railway, ensures convenient access from major destinations.

Contact Details

Dr. Amar Kishor & Dr. Kumar Vishal Organizing Secretaries, RTMCS-2025

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