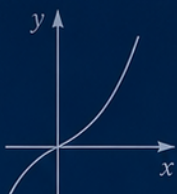


$$e^{i\pi} + 1 = 0$$

$$\sum_{n=1}^{\infty} \frac{1}{n^2} = \frac{\pi^2}{6}$$



$$f(x) = \sin x$$

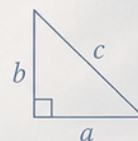
$$\lim_{x \rightarrow a} \frac{f(x)}{x - a}$$



TRIPURA UNIVERSITY

(A Central University)

Suryamaninagar, Tripura – 799022



DEPARTMENT OF MATHEMATICS NEWSLETTER

2025 – 26

Exploring Mathematics. Inspiring Minds. Shaping Futures.



“Mathematics is the language
in which God has written the universe.

– Galileo Galilei



DEPARTMENT'S ACHIEVEMENT



Prof. Binod Chandra Tripathy is a distinguished mathematician and Professor in the Department of Mathematics, Tripura University. He has been included in the **Stanford University Elsevier World's Top 2% Scientists** list every year from 2020 to 2025. In 2026, he was also recognized among the world's most influential researchers in mathematics as per **Research.com**.

INVITED TALKS, CONFERENCES & WORKSHOPS

Invited Talks by Prof. B.C. Tripathy MARCH, 2026



Prof. Binod Chandra Tripathy, Professor, Department of Mathematics, Tripura University, has delivered the **Keynote** address at the 3-Day International Conference on “**Innovative Concepts of Mathematical Science & Social Sciences in Shaping Sustainable Policies and Addressing Social Challenges (ICMSSC-2026)**” during 11–13 March 2026 at Government Degree College, Kamalpur.

Invited Talks by Prof. S. B. Halder 2025–2026



Prof. S. Bhattacharya Halder delivered invited talk at the **International Conference on Advances in Contemporary Mathematics**, held at Women's College during 19–21 March 2026.

She also served as an **Invited Speaker** in the panel discussion at the **National Conference on Feminism and Research Methodology**, MBB College, in 2026 and during the **Pi-Day** celebration at Women's College in 2025.

Invited Talks by Prof. S. Debnath
MARCH, 2026



Prof. S. Debnath, has delivered an invited talk at “International Conference on Advances in Contemporary Mathematics (ICAICM-2026)” at Department of Mathematics, Women’s College, Agartala, Tripura, INDIA during 19–21 March, 2026.

Also Prof. S. Debnath, has delivered an invited talk at the conference “Innovative Concepts of Mathematical Science and Social Sciences in Shaping Sustainable Policies and Addressing Social Challenges (ICMSSC2026)” at Dept of Mathematics, GDC, Kamalpur, Tripura, INDIA during 11–13 March, 2026

Indian National Mathematical Olympiad (INMO) Training Camp
3RD – 5TH JANUARY, 2026



The Department of Mathematics, Tripura University collaborated with the Tripura Mathematical Society (TMS) to organise a 3-day Training camp for the INMO participants from Tripura region. The camp was funded by Homi Bhabha Centre for Science Education (HBCSE), Mumbai. Apart from the INMO participants from Tripura region, top five rank holders from Junior Mathematical Olympiad and the finalists of the Inter School Quiz Contest in Mathematics organised by TMS were also invited to attend the camp.



Dr. Prithwijit De, Associate Professor at HBCSE, Mumbai and National Coordinator for RMO–INMO competitions, Dr. Manoj Kumar Patel, Associate Professor at NIT, Nagaland and Mr. Alok Kumar, renowned expert trainer for Mathematics Olympiads were the resource persons.

Special Lecture by Prof. Rajat Tandon
MARCH, 2026



The Department of Mathematics, Tripura University organized a special lecture on “Fermat’s Last Theorem and the ABC Conjecture” by Prof. Rajat Tandon, a renowned number theorist and former Professor of Mathematics at the University of Hyderabad, inspiring participants with insights into modern mathematics.

Problem Solving Camp for Madhava Mathematics Competition
DECEMBER, 2025



The Department of Mathematics, Tripura University in collaboration with the Tripura Mathematical Society has organised a 3-day Problem Solving camp for the participants of the Madhava Mathematics Competition from Tripura region. Madhava Mathematics Competition is an all India level Mathematics competition for undergraduate students organised by the Bhaskaracharya Pratisthana, Pune. A total 42 students from 7 different Institutes of Tripura had attended the camp.



Dr. Anjan Chakraborty from Indian Institute of Technology Guwahati (IITG), INDIA was present there as a Resource person.

Invited Talks by Dr. Priyankur Chaudhuri JULY, 2025



Dr. Priyankur Chaudhuri, an Indian mathematician and Tsinghua (YMSC) Imperial College London Postdoctoral Fellow, has delivered a talk on the **Birational Geometry of Algebraic Varieties** in the Department of Mathematics, Tripura University.

During the lecture, he has discussed recent developments in Birational Geometry, its significance in modern algebraic geometry, and its applications in understanding the structure and classification of algebraic varieties. The session provided valuable insights for faculty members, research scholars, and students, and encouraged academic interaction and research collaboration.



OTHER ACTIVITIES



Prof. S. Bhattacharya Halder is a Professor in the Department of Mathematics, Tripura University. She also serves as the **Director of the Women's Studies Centre**, where she actively promotes research, academic activities, and initiatives related to women's studies. Along with her administrative responsibilities, she continues to contribute to teaching and research in mathematics.

Also, Prof. S. Bhattacharya Halder served as the **Guest of Honour** at the **National Seminar on “From Disparity to Parity: Gender Equality for Inclusive Development,”** organised by the Departments of Economics and Political Science, MBB College, on 20–21 February 2026. She also served as a **Resource Person** in the **Short-Term Course on Feminist Research Methodology** under the **Faculty Development Programme (FDP)** at Mizoram University, held during 27–31 October 2025. In addition, she is a **Member of the College Development Council** and served as a **Member of the Convocation Committee, Tripura University, in 2026.**



Prof. Binod Chandra Tripathy served as the **Programme Coordinator** of the **Malaviya Mission Teacher Training Centre (MMTTC)**, formerly known as the **Faculty Development Centre (FDC)**, at Tripura University during the academic session 2025–2026. In addition, he has served as the **Programme Coordinator** since the establishment of the Centre.



Dr. Shouvik Bhattacharya, from the Department of Mathematics served as a **Resource Person** at the **Teacher Enrichment Workshop (TEW)** on “**Multivariable Analysis and Linear Algebra (2025)**,” held at ICFAI University, Agartala, from 15th – 20th December, 2025. The workshop was funded by the **National Board for Higher Mathematics (NBHM)**.



Dr. Ajoy Kanti Das has been serving as the **Assistant Coordinator** of the **Integrated Master Degree (IMD) Programme** since 2024, in addition to his academic responsibilities as an **Associate Professor** in the Department of Mathematics, Tripura University.

EMPLOYMENT NEWS

1.  The Department of Mathematics is delighted to announce that **Dr. Suman Das**, an alumnus of our department, has been appointed as **Assistant Professor (Grade II)** at the **National Institute of Technology (NIT) Calicut, Kerala** in 2026.
2. Furthermore, more than 20 alumni of the department were selected as **Post Graduate Teachers (PGT)–Mathematics** in the recent recruitment by the **TRBT, Education (School) Department, Government of Tripura**.

Ph.D. Awarded



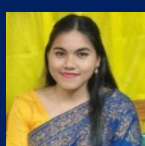
Dr.
Amit
Halder
(2025)



Dr.
Santonu
Debnath
(2025)



Dr.
Subhajit
Bera
(2025)



Dr.
Diksha
Debbarma
(2025)



Dr.
Sujeet
Kumar
(2025)



Dr.
Bibhajyoti
Tamuli
(2025)



Dr.
Hamari
Debbarma
(2026)



Dr.
Mousami
Das
(2026)

Students Qualified in National Competitive Examinations

Sl. No.		Student	Programme	Achievement	Year
1		Chandan Debnath	M.Sc. Mathematics	CSIR-NET	2026
2		Sukamal Paul	IMD Mathematics	IIT-JAM	2026
3		Saibal Saha	IMD Mathematics	IIT-JAM	2026
4		Joyashman Sen	M.Sc. Mathematics	GATE	2026

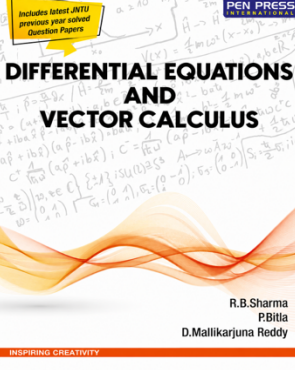
Other Student Achievements

Sl. No.		Student	Programme	Achievement
1		Dipa Chakraborty	IMD Mathematics (2023 Pass-out)	Secured admission to the Ph.D. programme at the University of Arkansas, USA (2025).
2		Priyanjana Saha	M.Sc. Mathematics	Participated in the Vigyan Vidushi Programme in Mathematics at the School of Mathematics, TIFR, Mumbai (22 June – 3 July 2026) during her first year of M.Sc. Mathematics.

3		Saibal Saha	IMD Mathematics	Participated in the Mathematical Training and Talent Search (MTTS) Level I Programme at KIIT, Bhubaneswar (18 May–13 June 2026) during his third year of IMD Mathematics.
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SOME OF OUR RECENT BEST PUBLICATIONS

	Title	Authors	Journal / Book
	Fault-tolerant-based H-infinity control for Takagi–Sugeno fuzzy wind turbine systems under stochastic actuator failures with quantized sampled-data information	Pratap Anbalagan, C. Maharajan, Rupak Datta , S. Ramasamy	Engineering Applications of Artificial Intelligence Volume: 153 Publication Year: 2026
	A Spiral and Enhanced Random Search Strategies based Slime Mould Algorithm for Global Optimization and Interplanetary Spacecraft Trajectory Problem	Suraj Roy , Sanjoy Chakraborty, Apu Kumar Saha, M. K. Sharma, Sharmistha Bhattacharya (Halder) , Debasish Bhowmik	Communications in Nonlinear Science and Numerical Simulation Volume: 153 Publication Year: 2026
	Lacunary Convergence and p -Absolutely Summable Sequences of Non-Newtonian Numbers	Ashoke Dutta , D. Harish, B. C. Tripathy	Proceedings of the National Academy of Sciences, India Section A: Physical Sciences Volume: 96 Publication Year: 2026

	On Ideal Convergence in a Bi-Complex Valued Metric Space	Juwel Hossain, Shyamal Debnath, Sanat Kumar Paul	Mathematical Sciences and Applications E-Notes Volume: 14(1) Publication Year: 2026
	PseudoTree-Soft Set, HyperTree-Soft, and Tree-to-Tree-Soft Set	Takaaki Fujita, Arif Mehmood, Ajoy Kanti Das, Suman Das, Volkan Duran, Arkan A. Ghaib, Talal Al-Hawary	Neutrosophic Computing and Machine Learning Volume: 42 Publication Year: 2026
	A Generalization of M-separable and R-separable Spaces	Prasenjit Bal, Subrata Bhowmik	Journal of the Indian Mathematical Society Volume: 92 Publication Year: 2025
	Differential Equations and Vector Calculus	Dr Bharavi Sharma Rayaprolu, Dr. Punnamchandar Bitla, Dr. Mallikarjuna Reddy Doodipala	Product : Book Pen Press international ISBN: 978-81-977846-6-8 Publication Year: 2025



All publications are available on the Department of Mathematics, Tripura University webpage:
<https://tripurauniv.ac.in/site/index.php/en/mathematics-recent-publications-en>

Recent Project Works



Title of the Project:

Traditional Ecological Knowledge in Tribal Communities of Tripura with Special Reference to Water Resource Management, Biodiversity Conservation and Climate Change Adaptation using Machine Learning Approaches

Co-Investigator:
Dr. Ajoy Kanti Das

Principal Investigator (PI):
Dr. Nandini Gupta, Associate Professor,
Department of Environmental Science,
Bir Bikram Memorial College, Agartala

Funding Agency:

Indian Council of Social Science
Research (ICSSR), Government of India

Total Grant: ₹10,00,000 (₹10 Lakhs)

Project Start Date: 01 April 2025

Project Summary: The project focuses on documenting and analysing the traditional ecological knowledge of the tribal communities of Tripura with emphasis on sustainable water resource management, biodiversity conservation, and climate change adaptation. The study integrates advanced Machine Learning techniques for data analysis and decision support to promote sustainable environmental management.

CELEBRATIONS



Teachers' Day 2025



Saraswati Puja celebrations on our department





Freshers Frenzies of our department



Farewell 2026

THANK YOU

For any queries, please email us: hod_mathematics@tripurauniv.ac.in