ANNUAL REPORT OF THE CALCUTTA MATHEMATICAL SOCIETY
FOR THE PERIOD FROM 1st APRIL 2025 TO 31st MARCH 2026

INTRODUCTION

Founded	: September 6, 1908 at the Senate House of the University of Calcutta.
Founder President	: Sir Asutosh Mookerjee.
Type of the Society	: Registered Society (Reg. no.6832/85) with an objective for promotion of education and research in Mathematics and Mathematical Sciences.
Postal Address	: AE-374, Sector-I, Salt Lake City, Kolkata-700064.
Status	: Internationally recognized academic Society.
Telephone	: +91 98753 40610, 03340647875
Email	: cms.office2010@gmail.com
Website	: **www.calmathsociety.co.in**

Administrative Complex:"ASUTOSH BHAVAN"
AE-374, Sector-I,
Salt Lake City,
Kolkata- 700064.

Academic Complex:"ASUTOSH BHAVAN"
AE-374, Sector-I,
Salt Lake City,
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ANNUAL REPORT

The annual report of the Calcutta Mathematical Society is a record of its broad academic and administrative programs and performances during the period from 1st April 2025 to 31st March 2026. This annual report also reflects the progress achieved by the Society during this period.

The Council Members (2024-2027)

President	: Prof. Indrajit Lahiri
Vice-Presidents	: Prof. Uma Basu, Prof. Kajal De, Prof. D.K Ganguly, Prof. Madhumangal Pal, Prof. Rajkumar Roychoudhury.
Secretary	: Prof. Arindam Bhattacharyya
Treasurer	: Dr. Bablu Biswas
Editorial Secretary	: Dr. Koushik Ghosh
Assistant Secretary	: Dr. Partha Karmakar

Other Members of Council: Dr. Krishnapada Das, Dr. Malay Banerjee , Prof. Shyamal Kumar Hui, Dr. Bappa Das, Prof. Pritha Das, Prof. Suma Debsarma , Prof. Nurul Islam , Dr. Aloke Pal, Prof. Seema Sarkar(Mondal), Prof. Gopal Chanda Shit , Dr. Sumana Pal , Prof. T Som , Dr. Gorachand Chakraborty.

ACTIVITIES OF THE CALCUTTA MATHEMATICAL SOCIETY (2025- 2026)

Administrative and academic activities of the Calcutta Mathematical Society during the period from 1st April 2025 to 31st March 2026 are presented in brief.

1. Administrative activities:

There are i) Ten (10) Council Meetings and ii) Ten (10) Ordinary General Meetings and one Annual General Meeting were held during this period.

2. Under Graduate Internship Programme 2025

Calcutta Mathematical Society organized an Internship Programme for UG students from various disciplines and it was held during17th May 2025 to 14th June 2025. 153 students attended from various colleges from West Bengal and also from other states of India. 22 Mentors guided the students enthusiastically.

3. Advanced Mathematical Ability Test for Class XI& XII:

Calcutta Mathematical Society conducted an Advanced Mathematical Ability Test for the students of class XI and XII to celebrate its 118-th Foundation Day on 6-th September. The test held online on 6th September, 2025 between 1:00 p.m – 2:00 p.m. All the 53 participating students received E-certificate for participation after duly submission of feedback form. Students from Kolkata and other districts of West Bengal participated in the Test. Shortlisted candidates called for interview and best students were rewarded.

SEMINER

- **Foundation Day Celebration**

  Calcutta Mathematical Society, Kolkata, India organized a Webinar on History of Science on 06 September2025, as a part of 118thFoundation Day celebration program. Calcutta Mathematical Society conducted N.R Sen Memorial Lecture at the premises of Calcutta Mathematical Society, from 11.00 am onwards. Prof. Subenoy Chakraborty, Retd. Prof. of Jadavpur University, Dept. of Mathematics gave one-hour popular lecture on "Is Relativity Theory a unification of Physics and Mathematics?" Many school students and research scholars and council members attended the lecture.

- **International Conference on New Age Mathematical Sciences (ICNAMS 2025)(Annual Conference of Calcutta Mathematical Society)**

  International Conference on New Age Mathematical Sciences (ICNAMS 2025) organized during 11 - 13 December 2025 at the premises of the Calcutta Mathematical Society. The mode of the conference over hybrid mode. Students, Faculty members and Research Scholar from various disciplines of Mathematical Science are able to join the seminar. Copy of Certificate will be provided to the all participants.

- **Summary of the "International Conference on New Age Mathematical Sciences (ICNAMS 2025)":**

  Welcome Address was delivered by **Prof. Arindam Bhattacharyya,** Secretary, Calcutta Mathematical Society

  About the Conference was addressed by **Prof. Seema Sarkar(Mondal)**, Organizing Secretary, ICNAMS-2025 and Council Member, Calcutta Mathematical Society

  Address by Chief Guest: Prof. Anupam Basu , Raja Ramanna Chair Professor, Jadavpur University, Former Director NIT Durgapur,India

  Presidential Address was delivered by **Prof. Indrajit Lahiri**, President, Calcutta Mathematical Society

  Vote of Thanks was proposed by **Prof. Pritha Das**, Joint Coordinator, ICNAMS-2025 and Council Member, Calcutta Mathematical Society

  Details of Invited Talks:

  11 December, 2025

  Invited Talk 1 (Saha and Saha Memorial Lecture)

  Speaker: Prof. Anupam Basu, Raja Ramanna Chair Professor, Jadavpur University, Former Director NIT Durgapur, India.

Title of the Talk: Self-attention and transformers.

Chairperson: Prof. Rajkumar Roychoudhury, Vice President,
Calcutta Mathematical Society.

Invited Talk 2

Speaker: Prof. Madhurima Chattopadhyay, Heritage Institute of Technology, Kolkata, India.

Title of the Talk: Issues related to Miniaturization of Ion Traps- A mathematical insight.

Chairperson: Prof. Shyamal Kumar Hui, Council Member, Calcutta Mathematical Society

Invited Talk 3

Speaker: Prof. Malay Banerjee, IIT Kanpur, India

Title of the Talk: Structural Sensitivity of Chaotic Dynamics in Hastings-Powell Model

Chairperson: Prof. Kajal De, Vice President, Calcutta Mathematical Society.

Invited Talk 4

Speaker: Dr. Santanu Manna, IIT Indore, India

Title of the Talk Small-Scale Effects in Rayleigh Wave Propagation

Chairperson: Prof. Uma Basu, Vice President, Calcutta Mathematical Society.

12 December,2025

Invited Talk 5

Speaker: Prof. Linfan Mao , Chinese Academy of Sciences, Beijing, China.

Title of the Talk: New Mathematics over Combinatorial Structure G.

Chairperson: Prof. Arindam Bhattacharyya, Secretary, Calcutta Mathematical Society.

Invited Talk 6 (S.N. Bose Memorial Lecture)

Speaker: Prof. Soumitro Banerjee , IISER Kolkata, India

Title of the Talk: Robust Chaos

Chairperson: Prof. Seema Sarkar(Mondal), Organizing Secretary, ICNAMS-2025 and Council Member, Calcutta Mathematical Society

Invited Talk 7

Speaker: Prof. Kailash C Patidar University of the Western Cape, South Africa

Title of the Talk: Data-Driven Approaches for Solving Variable Order PDEs Modelling Financial Derivatives

Chairperson: Dr. Koushik Ghosh, Editorial Secretary, Calcutta Mathematical Society.

13December, 2025

Invited Talk 8

Speaker:Prof. Gerhard-Wilhelm Weber Poznan University of Technology, Poland

Title of the Talk: Enhancing HRMEffectiveness for Generation-Z Through Ergonomics and Spatial Collaboration

Chairperson: Prof.Madhumangal Pal, Vice President, Calcutta Mathematical Society.

Invited Talk 9

Speaker: Prof. Timoteo CARLETTI, Namur Institute for Complex Systems (naXys),Université de Namur ASBL,Namur, Belgium

Title of the Talk: Synchronization for Interconnected Complex Systems:observations to theory

Chairperson: Prof. Prof. Pritha Das, Joint Coordinator, ICNAMS-2025 and Council Member, Calcutta Mathematical Society

Invited Talk 10

Speaker: Prof. Adrian-Olimpiu Petrusel Babes-Bolyai University, Cluj-Napoca, Romania

Title of the Talk: Multi-valued Nadler type Operators

Chairperson: Prof. D. K. Ganguly, Vice President, Calcutta Mathematical Society.

Details of Contributed Oral Presentations:

11 December, 2025

Contributed Oral Presentation Session 1

Chairpersons: Dr. Partha Karmakar, Assistant Secretary, Calcutta Mathematical Society & **Dr. Nurul Islam** , Council Member , Calcutta Mathematical Society.

Total nine presentations

Contributed Oral Presentation Session 2

Chairperson: Dr. Bappa Das , Council Member, Calcutta Mathematical Society.

Total six presentations

12 December 2025

Contributed Oral Presentation Session 3

Chairperson: Dr. Aloke Pal, Council Member, Calcutta Mathematical Society

Total four presentations

Contributed Oral Presentation Session 4

Chairperson: Dr. Sumana Pal, Council Member, Calcutta Mathematical Society.

Total five presentations

13 December 2025

Contributed Oral Presentation Session 5

Chairperson: Dr. Bablu Biswas, Treasurer, Calcutta Mathematical Society

Total five presentations

Contributed Oral Presentation Session 6

Chairperson: Dr. Krishnapada Das, Council Member, Calcutta Mathematical Society

Total four presentations

Summary of the Valedictory Session on 13 December 2025

Summary of the Conference: Dr. Sumana Pal, Council Member, Calcutta Mathematical Society

After that some Feedbacks were received from the Participants.

Finally, **Vote of Thanks** was proposed by **Dr. Bablu Biswas**, Joint Coordinator, ICNAMS-2025 and Treasurer, Calcutta Mathematical Society.

To summarize, there were **ten Invited Talks** out of those **two were Memorial Lectures** and there were **thirty-three Contributed Oral Presentations** distributed in six different sessions. **Five delegates** were from **abroad**.

- **International Seminar on Physical and Mathematical Sciences (ISPMS-2026)**

Calcutta Mathematical Society, Kolkata, India organized an international seminer Seminar on Physical and Mathematical Sciences (ISPMS-2026) on 7th March 2026. The main objective of ISPMS-2026 was to promote research and to focus on the recent advances in different sectors of Applied Mathematics, Mathematical & Theoretical Physics, Number Theory and Analysis to commemorate the phenomenal contributions of the two legends Prof. Satyendranath Bose and Srinivasa Ramanujan. The seminar aims to provide ideal platform for the interaction between the researchers, to exchange their views and ideas and to initiate possible scientific collaboration in the focused domains. The programme consisted of invited talks as well as contributed presentations in different technical sessions.
The seminar held in hybrid mode. It encouraged in-person participation of those residing within the state of West Bengal. Participants from other states in India or from abroad may opt for online participation.

AWARDS

I. "Professor S.N Bose Memorial Award" of Rs. 3000/- donated by Prof. Uma Basu was given to Asrik Kuhak Ghosh, the 1st rank holder of the online Advanced Mathematical Ability Test for the students of Class XI and XII, held during 6th. September, 2025.

II. "Professor A.B Roy Memorial Award" of Rs. 3000/- donated by Prof. Pritha Das was given to Nistha Das, the 2nd rank holder of online Advanced Mathematical Ability Test for the students of Class XI and XII, held during 6th. September, 2025

III. "Professor Sanjay Sen Memorial Award", of Rs. 3000/- was given to Vivek Kochbaha, 3rd rank holder of the online Advanced Mathematical Ability Test for the students of Class XI and XII, held during 6th. September, 2025.

IV. "Anita Bose Memorial Award" of Rs.3000/- was given to Tabassum Abedin another rank holder of the online Advanced Mathematical Ability Test for the students of Class XI and XII, held during 6th. September, 2025.

PUBLICATION

The Calcutta Mathematical Society published all of its three internationally recognized series of journals namely, 1) Bulletin of the Calcutta Mathematical Society, 2) Journal of the

Calcutta Mathematical Society, and 3) News Bulletin of Calcutta Mathematical Society in time.

1) Bulletin of the Calcutta Mathematical Society: During the period a total number of 41 research papers were received, 07 papers were accepted, 18 papers are under review, and 16 papers were rejected. The acceptance rate is about 30.43%. Volume 117, No. 3-6 (2025) of the Bulletin of the Calcutta Mathematical Society were published during this period.

2) Journal of the Calcutta Mathematical Society: During the period the total number of research papers was received 36, 07 papers were accepted, 14 papers are under review and 14 papers were rejected. The acceptance rate is about 33.33 %. Volume 21, No. 1 & 2 (2025) of the Journal of the Calcutta Mathematical Society was published during this period.

3) News Bulletin of Calcutta Mathematical Society: During the period the total number of 25 papers was received, of which 11 were published and 14 were rejected. Volume 48, No.4-12 (2025) and Volume 49, No.1-3(2026) of the News Bulletin of Calcutta Mathematical Society were published during this period.

LIBRARY OF THE CALCUTTA MATHEMATICAL SOCIETY

Over the years, the library of the Society has attained the distinction of being one of the richest libraries in the country particularly in the field of Mathematics. Library has now 18933 volumes of books and journals altogether. The Society has exchange relation with different Universities, Institutions and learned Societies all over the world under "Journal exchange program". Society now receives 48 foreign journals from USA, UK, Japan, Korea, Yugoslavia, France, Australia, Germany, Spain, Czech Republic, Italy, Poland, Canada, Turkey, Bulgaria, China, Hungary, Malaysia, Finland, Egypt, Denmark and 12 journals from different states of India. Library also maintains manuscripts and letters of Professor S. N. Bose, Life History of Professor Bibhuti Bhusan Dutta (Later known Swami Vidyaranya). Several valuable papers of the eminent scientists like Meghnad Saha, C. V. Raman, K. Chandrasekhar, S. N. Bose, Ganesh Prasad and many others had been published in the Bulletin of the Calcutta Mathematical Society, which were kept in the library as hard copy and as soft copy too. During the period under report total no. of books were 6853 and total number of bound volumes of journals were 12,188. Library book entry in Excel database was going on during this period.

FUTURE PLANS AND PROGRAMS

- An internship programme 2026 will start on and from16.05.2026 and it will continue till 13.06.2026.
- Calcutta Mathematical Society, Kolkata, India is going to organize " Short Term Course On Applications of Agentic AI in Computation and Mathematical Sciences (STCAAAICMS-2026) During 30 June - 15 July, 2026 Time: 05:30 - 08:30 pm (Indian Standard Time) Mode: Online (Google Meet)

- Calcutta Mathematical Society will conduct Advanced Mathematical Ability Test 2026 for students of class IX and X to celebrate its 119-th Foundation Day on 6-th September 2026.

- Calcutta Mathematical Society will conduct its Annual International Conference during 17- 19 December 2026.

DONATION

1. Prof. Indrajit Lahiri, President of Calcutta Mathematical Society, donated Rs.2000/- for the general purpose of the Society.

2. Dr. Nurul Islam, Council member of Calcutta Mathematical Society, donated Rs.2000/-for the general purpose of the Society.

3. Prof. Rajkumar Roychoudhury, Vice President of the Society, donated Rs 10,000/- for the general purpose of the Society.

4. Dr. Koushik Ghosh, Editorial Secretary of Calcutta Mathematical Society, donated Rs.3000/- for the general purpose of the Society.

5. Dr. Bappa Das, Council member of Calcutta Mathematical Society, donated Rs.2000/- for the general purpose of the Society.

6. Prof. B.N. Mandal, Ex- Secretary of Calcutta Mathematical Society, donated Rs.50000/-for the Library furniture (Almirah) and 3000/- for the general purpose of the Society.

7. Prof. Tanushri Saha, donated Rs.3000/- for the general purpose of the Society.

8. Dr. Koushik Ghosh, Editorial Secretary of Calcutta Mathematical Society, donated 2pcs External Hard Disk for the Calcutta Mathematical Society library whose cost was Rs. 6600/-.

Indrajit Lahiri

(Prof. Dr. Indrajit Lahiri)
President
Calcutta Mathematical Society

(Prof. Dr. Arindam Bhattacharyya)
Secretary
Calcutta Mathematical Society

Date: 26.09.2026