ANNUAL REPORT OF THE CALCUTTA MATHEMATICAL SOCIETY
FOR THE PERIOD FROM 1st APRIL 2024 TO 31st MARCH 2025

INTRODUCTION

Founded	: September 6, 1908 at the Senate House of the University of Calcutta.
Founder President	: Sir AsutoshMookerjee.
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, (033) 4064-7875
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,
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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 2024 to 31st March 2025. This annual report also reflects the progress achieved by the Society during this period.

CALCUTTA MATHEMATICAL SOCIETY ESTD-1908 KOLKATA-64 AE-374, Sec-I, Salt Lake

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), Dr.Gopal Chanda Shit, Dr. Sumana Pal, Prof. T Som, Dr. Gorachand Chakraborty.

ACTIVITIES OF THE CALCUTTA MATHEMATICAL SOCIETY (2024- 2025)

Administrative and academic activities of the Calcutta Mathematical Society during the period from 1st April 2024 to 31st March 2025 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. Advanced Mathematical Ability Test for Class IX& X:

Calcutta Mathematical Society conducted an Advanced Mathematical Ability Test for the students of class IX and X to celebrate its117-th Foundation Day on 6-th September. The test will be held online on 6th September, 2024 between 6:00 p.m – 7:00 p.m. All the 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.

3. Council Election 2024-2027 :

The following candidates are declared unopposed as elected to the Management Committee of the year 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

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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), Dr.Gopal Chanda Shit, Dr. Sumana Pal, Prof. T Som, Dr. Gorachand Chakraborty.

SEMINER

- **Foundation Day Celebration**

  Calcutta Mathematical Society, Kolkata, India organized a Webinar on History of Science on 06 September, 2024 to celebrate its 117th birthday. The speaker is Dr. Manaspratim Das, Programme Executive, Akashvani Kolkata, India. Time: 7:30 PM - 08: 30 PM (Indian Standard Time).

- **Prof. M.R. Gupta Memorial Seminar on Nonlinear and Complex Phenomena**

  Calcutta Mathematical Society (CMS) organized a seminar in collaboration with Centre for Plasma Studies (CPS), Jadavpur University (JU), Kolkata & Advanced Centre for Nonlinear and Complex Phenomena (ACNCP), Kolkata was held in 7th September 2024 the premises of the Calcutta Mathematical Society. The mode of the conference over offline mode.

- **International Conference on Complex Dynamical Systems- Theory and Applications (ICCSTA-2025)**

  International Conference on Complex Dynamical Systems - Theory and Applications (ICCSTA-2025) organized during February 21st to 23rd, 2025 at the premises of the Calcutta Mathematical Society. The mode of the conference over online (hybrid) mode. Students, Faculty members and Research Scholar from various disciplines of Mathematical Science are able to join the seminar.
  Soft Copy of Certificate will be provided to the all participants.

Summary ofthe "International Conference on Complex Dynamical Systems - Theory and Applications (ICCSTA-2025):

Welcome Address was delivered by **Prof. Arindam Bhattacharyya,** Joint Convener, ICCDSTA-2025 and Secretary, Calcutta Mathematical Society

About the Conference was addressed by **Prof. Malay Banerjee**, Joint Convener, ICCDSTA-2025 and Council Member, Calcutta Mathematical Society

Chairperson's Address was delivered by **Prof. Rajkumar Roychoudhury**, Vice President, Calcutta Mathematical Society

Vote of Thanks was proposed by **Dr. Koushik Ghosh**, Joint Coordinator, ICCDSTA-2025 and Editorial Secretary, Calcutta Mathematical Society.

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Details of Invited Talks:

21 February, 2025

Invited Talk 1 (S.N. Bose Memorial Lecture)

Speaker: Prof. Jayanta K. Bhattacharjee, Harish Chandra Research Institute, Allahabad, India

Title of the Talk: Fully Developed Turbulence.

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

Invited Talk 2 (B.K. Datta Memorial Lecture)

Speaker: Prof. Dan Popovici, Universite Paul Sabatier, Institut de Mathematiques de Toulouse, France.

Title of the Talk: Higher Degree Holomorphic Contact Structures.

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

Invited Talk 3

Speaker: Prof. Debnath Pal, Indian Institute of Science, Bengaluru, India

Title of the Talk: A Graph-based Framework for Scalable Simulation of Physiological Networks

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

22 February, 2025

Invited Talk 4

Speaker: Prof. Gauree Shanker, Central University of Punjab,Punjab, India.

Title of the Talk: Recent Advances in Homogeneous and Symmetric Finsler Spaces.

Chairperson: Prof. Kajal De, Vice President, Calcutta MathematicalSociety.

Invited Talk 5 (Suddhodan Ghosh Memorial Lecture)

Speaker: Prof. Slawomir Dinew, Jagiellonian University, Poland

Title of the Talk: Complex PDEs and Convex Integration **Chairperson: Prof. D.K. Ganguly**, Vice President, Calcutta Mathematical Society.

Invited Talk 6

Speaker: Prof. Raluca Eftimie, Universite de Franche - Comte, France

Title of the Talk: Mathematical Approaches for the Understanding of Macrophages' Roles in the Evolution of Tumours and related Fibrotic Disorders

Chairperson: Prof. Malay Banerjee, Joint Convener, ICCDSTA-2025 and Council Member, Calcutta Mathematical Society.

23February, 2025

Invited Talk 7

Speaker: Dr. Aditi Ghosh, Texas A&M Commerce, USA

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Title of the Talk: Development of Mathematical Modeling Tools for Understanding the Dynamics of Liver Injury in Patients **Chairperson: Prof. Suma Debsarma**, Council Member, Calcutta Mathematical Society.

Invited Talk 8 (Cullis Memorial Lecture)

Speaker: Prof. Soumyendu Raha, Indian Institute of Science, Bengaluru, India

Title of the Talk: Stochastic Differential Equations with Constraints on Smooth Manifolds

Chairperson: Prof. Arindam Bhattacharyya, Joint Convener, ICCDSTA-2025 and Secretary, Calcutta Mathematical Society

Invited Talk 9 (Saha & Saha Memorial Lecture)

Speaker: Prof. Amit K. Chattopadhyay, The National College of Ireland, Dublin, Ireland

Title of the Talk: Infection Epidemiology through the AI Lens - Mathematics in Healthcare

Chairperson: Prof. Pritha Das, Council Member, Calcutta Mathematical Society.

Details of Contributed Oral Presentations:

21 February 2025

Contributed Oral Presentation Session 1

Chairperson: Prof. Seema Sarkar (Mondal), Council Member, Calcutta Mathematical Society.

Total four presentations

Contributed Oral Presentation Session 2

Chairperson: Prof. Nurul Islam, Council Member, Calcutta Mathematical Society.

Total four presentations

22 February 2025

Contributed Oral Presentation Session 3

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

Total four presentations

Contributed Oral Presentation Session 4

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

Total five presentations

23 February 2025

Contributed Oral Presentation Session 5

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

Total five presentations

Contributed Oral Presentation Session 6

Chairperson: Dr. Gorachand Chakraborty, Council Member, Calcutta Mathematical Society

Total six presentations

Contributed Oral Presentation Session 7

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

Total six presentations

Summary of the Valedictory Session on 23 February 2025

Summing up the Conference and Announcement of the Important Information regarding the Certificate and Publication of the Presented Paper was addressed by **Dr. Koushik Ghosh**, Joint Coordinator, ICCDSTA-2025 and Editorial Secretary, Calcutta Mathematical Society

After that some Feedbacks were received from the Participants.

Concluding Lecture was delivered by **Prof. Arindam Bhattacharyya**, Joint Convener, ICCDSTA-2025 and Secretary, Calcutta Mathematical Society

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

To summarize, there were **nine Invited Talks** out of those **five were Memorial Lectures** and there were **thirty-four Contributed Oral Presentations** distributed in seven different sessions. **Six delegates** were from **abroad**.

AWARDS

I. Rs. 3000/- were given to Arunima Gorai, the 1st. rank holder and also to Shrimoyee Bera, the 2nd. Rank holder of the online Advanced Mathematical Ability Test for the students of Class IX and X, held during 6th. September, 2024 from the Society's own fund.

II. "Professor Sanjay Sen Memorial Award", of Rs.3000/- ,donated by Prof. Rajkumar Roychoudhury, Ex-President, Calcutta Mathematical Society was given to Swarnavo Banerjee, a rank holder of the online Advanced Mathematical Ability Test for the students of Class IX and X , held during 6th. September, 2024.

III. Due to unavailability of the suitable girl candidate fulfilling the specific condition for Anita Bose memorial award, no award was given in this category.

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 114 research papers were received, 24 papers were accepted, 64 papers are under review, and 26 papers were rejected. The number of published papers is 77. The rejection rate is about 52 %. Volume 116, No. 2-6 (2024) and Volume 117, No. 1 & 2 (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 were received 86, 16 papers were accepted, 56 papers are under review and

14 papers were rejected. The number of published papers is 51. The rejection rate is about 46%. Volume 20, No. 1, 2 & 3 (2024) & Volume 21, No. 1 (2025) of the Journal of the Calcutta Mathematical Society were published during this period.

3) News Bulletin of Calcutta Mathematical Society: During the period the total numbers of 05 papers were received, of which 04 were published and 01 was rejected. Volume 47, No. 4-12 (2024) and Volume 48, No. 1-3 (2025) 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 64 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 and12 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.

Due to pandemic situation during this period library services were given to the research scholars, teachers and students of mathematics and mathematical sciences from India and abroad through e-mail. Soft copy of the research papers were sent to them through e-mail.

FUTURE PLANS AND PROGRAMS

- An internship programme 2025 will start on and from17.05.2025 and it will continue till 14.06.2025.
- Calcutta Mathematical Society, Kolkata, India is going to organize "Short Term Course on Introduction to Data Science (2025) (STCIDS-2025)" during 21 - 30 June, 2025 [Mode: Online (Google Meet)].
- A National Level Webinar on Revitalizing Mathematics in Undergraduate Programme: Strategies for Teaching Mathematics and Fostering Research in the NEP Era organized by Calcutta Mathematical Society on 30th August 2025 in online ~~mood~~ mode.

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- Calcutta Mathematical Society will conduct Advanced Mathematical Ability Test 2025 for students of class XI and XII to celebrate its 118-th Foundation Day on 6-th September 2025.

- Calcutta Mathematical Society will conduct an International Seminar in 11th to 13th December 2025.

DONATION

1. Prof. R.K Bera, Ex President of Calcutta Mathematical Society, donated Rs. 500,000/- for the maintenance of the Society.

2. Prof. Arindam Bhattacharyya, Secretary of the Society, donated Rs.1500/- for the development of the Society.

Indrajit Lahiri

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

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

Date: 13.09.2025.

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