

ANNUAL REPORT OF THE CALCUTTA MATHEMATICAL SOCIETY
FOR THE PERIOD FROM 1st APRIL 2023 TO 31st MARCH 2024

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,
Kolkata-700064.

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 , 2023 to 31st March 2024. This annual report also reflects the progress achieved by the Society during this period.

The Council Members (2023-2024)

President	: Dr. Rasajit Kumar Bera
Vice-Presidents	: Dr. Debidas Chattoraj, Dr. T.Som , Dr. Joydeb Chattopadhyay, Dr. Kajal De, Dr. Sanjib Kumar Datta.
Secretary	: Dr. Arindam Bhattacharyya
Treasurer	: Dr. Koushik Ghosh
Editorial Secretary	: Dr. Indrajit Lahiri
Assistant Secretary	: Dr. Partha Karmakar
Other Members of Council	: Dr. Rajat Kumar Banerjee , Dr. Malay Banerjee , Dr. Krishnapada Das , Dr. Dilip Kumar Ganguly, Dr. Kalyan Halder , Dr. Bablu Biswas, Dr. Nurul Islam , Dr. Alope Pal , Dr. Rajkumar Roychoudhury , Dr. Seema Sarkar , Dr.Gopal Chanda Shit , Dr. Gokul Saha , Dr. Kalishankar Tewari.

ACTIVITIES OF THE CALCUTTA MATHEMATICAL SOCIETY (2023 - 2024)

Administrative and academic activities of the Calcutta Mathematical Society during the period from 1st April 2023 to 31st March 2024 are presented in brief....

1. Administrative activities:

There are i) Ten (10) Council Meetings and ii) Seven (7) Ordinary General Meetings and one Annual General Meeting were held during this period.

2. 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 116th Foundation Day on 6th September. The test held in online mode on 6th September, 2023 between 2:00 p.m.– 3:00 p.m. All the participating students got an e- certificate for participation.

Shortlisted candidates according to their performance in online test were called for an interview. Best 3 students in respect to their merits were awarded certificates of achievement and Monetary prize of Rs. 3000 each.

3. NET Training Program for the postgraduate students in Mathematics:

It is observed that to improve the level of Ph.D aspirants, an academic preparation of the students for Ph.D. program in Mathematics in various Universities and Institutes in the country is needed. Calcutta Mathematical Society had started a training program for the postgraduate students in Mathematics to facilitate preparation for NET/SET by renowned resource persons from the different Universities /Institutes. Four months training program is conducted by the Society two times per year. Total eight (8) students were trained during this period.

SEMINER

- **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 held in 18th August 23 in the premises of the Calcutta Mathematical Society.

- **Foundation Day Celebration**

Calcutta Mathematical Society, Kolkata, India organized a Webinar on History of Science on 06 September, 2023 to celebrate its 116th birthday. The speaker was Prof. Dipak Kumar, Former Professor, History of Science and Education . Centre of Educational Studies, Jawaharlal Nehru University, New Delhi. Time: 11:30 AM - 01: 00 PM (Indian Standard Time).

- **International Conference on Advancement of Mathematical Sciences and Computer Vision (ICAMSCV-2023)**

Brief Report (Highlights) of International Conference on Advancement of Mathematical Sciences and Computer Vision (ICAMSCV-2023) held during 09-11 December, 2023 in hybrid mode at the Calcutta Mathematical Society.

ICAMSCV-2023 is believed to have had a significant impact on society from an educational perspective, as numerous distinguished scientists and mathematicians engaged in fruitful exchanges of their findings and deliberated on the practical applications of their results for societal improvement.

On the first day after the Inaugural program, N. R. Sen memorial lecture was delivered by Prof. Dr. Swagatam Das of ISI, Kolkata and Prof. Arjen Doelman of Leiden University, Netherlands, delivered S. N. Bose memorial lecture in online mode. Dr. Haider Banka of IIT, ISM, Dhanbad, Dr. Saurabh Trivedi and Dr. Abhitosh Upadhyay of IIT, Goa, Dr. Rajat Banerjee of CGCRI, CSIR, Prof. Tanmoy Som of IIT, BHU, Dr. Akram Ali of King Khalid University, Saudi Arabia presented Invited talks during the three days' conference. Prof. Dr. N. T. Dung, VNU, Vietnam delivered the Cullis Memorial lecture in online mode and Dr. Santanu Manna of IIT, Indore delivered Saha&Saha Memorial lecture.

All the memorial lectures and invited talks provided invaluable insights into various research areas for both young participants and faculty members alike.

In total, 54 papers were presented during the event, with 10 of them being presented in online mode.

In the conference, the research topics covered from various sections of mathematical sciences that include Mathematical Analysis, Algebraic Topology, Computer Science, Artificial Intelligence, Nature-inspired Optimization, Geometric Analysis, Soft Computing, Mathematical Modelling& Simulation, and Space Sciences.

In the valedictory session, we had the honour of presenting the prestigious P. K. Ghosh Memorial Award and S. N. Bagchi Memorial Award to two outstanding students from the postgraduate class of the University of Calcutta. Also, the awards were bestowed upon the top rank holders of the "Advanced Mathematical Ability Test" for class XI & XII organized by the Calcutta Mathematical Society.

The conference concluded with a vote of thanks extended to all participants, speakers, sponsors, and organizers for their invaluable contributions and support. Feedback from the participants was gathered to evaluate the success of the event and noted some points for improvement. Finally, discussions were held regarding the next course of action to be undertaken by the society.

AWARDS

- I. Rs. 3000/- were given to Oishik Basu, the 1st. rank holder and also to Pratik Dhanuka, the 2nd. rank holder of the online Advanced Mathematical Ability Test for the students of Class XI and XII , held during 6th. September, 2023 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 Samam Roy, a rank holder of the online Advanced Mathematical Ability Test for the students of Class XI and XII , held during 6th. September, 2023.
- III. Due to the unavailability of the suitable girl candidate fulfilling the specific condition for Anita Bose memorial award no award was given in this category.

PUBLICATION

Publication of Journals:

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 138 research papers were submitted, 36 papers were accepted, 06 papers are under revision and 10 papers were rejected. Total number of papers with referees 86. The number of published papers were 55. The rejection rate is about 14 %. Volume 115, No. 3-6 (2023) and Volume 116, No. 1 & 2 (2024) 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 42, 16 papers were accepted, 04 papers are under revision and 06 papers were rejected, Total number of papers with referees 16. The number of published papers was 21. The rejection rate is about 14%. Volume 19, No. 1 & 2(2023) 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 03 papers were received, of which 02 were published and 01 was rejected. Volume 46, No.1-12(2023) and Volume 47, No. 1-3(2024) 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 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 Vidyanaraya). 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

- Calcutta Mathematical Society will conduct a Short Term Course on Mathematical and Computer Sciences 2024 (STCMCS-2024) on 19 - 26 June 2024 in online mode.
- Calcutta Mathematical Society is going to organize One Day Webinar on Mind and the Machine: The AI Perspective on the occasion of its 117th Foundation Day On 6th September 2024 between 7.30 pm to 8.30 pm. Speaker: Dr. Manaspratik Das, Programme Executive, Akashvani Kolkata.
- Calcutta Mathematical Society will conduct Advanced Mathematical Ability Test 2024 for students of class IX and X to celebrate its 117-th Foundation Day on 6-th September 2024.
- Prof. M.R. Gupta Memorial Seminar on Nonlinear and Complex Phenomena will be jointly organized by Advanced Centre for Nonlinear and Complex Phenomena (ACNCP), Kolkata and Calcutta Mathematical Society (CMS), Kolkata in collaboration with the Centre for Plasma Studies, Jadavpur University, Kolkata to be held on 7th September, 2024 (Saturday) in offline mode.
- Calcutta Mathematical Society will conduct an International seminar.
- An International Seminar will be held in the month of February 2025 in the premises of Calcutta Mathematical Society to celebrate the 132st Birthday of Prof. Satyendranath Bose.

DONATION

1. Society received Rs.3,000/- for society's welfare, from Dr Santanu Manna.
2. Prof. Joydeb Sarkar, donated Rs.3000/ - for the development of the Society.
3. Society received Rs. 1000/- for society's welfare from Dr. Saurabh Trivedi.
4. Society received Rs. 1000/- for society's welfare from Prof. Sudeshna Basu.

(Prof. Dr. Rasajit Kumar Bera)
President
Calcutta Mathematical Society

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

Date :