Chennai Mathematical Institute

National Undergraduate and Postgraduate Programmes in Mathematical Sciences

Information Brochure, 2023–2024

3-Year B.Sc. (Honours) Programme in Mathematics and Computer Science

3-Year B.Sc. (Honours) Programme in Mathematics and Physics

2-Year M.Sc. Programme in Mathematics

2-Year M.Sc. Programme in Computer Science

2-Year M.Sc. Programme in Data Science

Ph.D. Programme in Mathematics

Ph.D. Programme in Computer Science

Ph.D. Programme in Physics

Contact Address

Chennai Mathematical Institute
H1, SIPCOT IT Park, Siruseri
Kelambakkam 603 103, Tamilnadu, India

Phone: (044) 7196 1000, (044) 2747 0226–0229,
Fax: (044) 2747 0225
E-mail: admissions@cmi.ac.in
WWW: https://www.cmi.ac.in/admissions

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1 The Chennai Mathematical Institute

Chennai Mathematical Institute (CMI), a university under Section 3 of the UGC Act 1956, is recognized both within the country and abroad as one of the important centres in India for research and teaching in mathematical sciences. CMI is set up under a Trust and is managed by a Governing Council made up of eminent academic personalities. The teaching programmes are overseen by the Academic Council, consisting of senior faculty from CMI and other leading institutions across India. The members of the Governing Council and Academic Council are listed at the end of this brochure.

Research at CMI

The Institute is headed by Professor Madhavan Mukund, a well known computer scientist. CMI was founded in 1989 by Professor C. S. Seshadri, F.R.S.. The Institute has a talented group of faculty members who have strong academic ties with reputed institutions in India and abroad. The Institute also attracts a regular stream of academic visitors, both from India and from abroad.

The main areas of research in Mathematics pursued at the Institute are algebra, analysis, differential equations, geometry, probability, statistics, topology, number theory and differential geometry. In Computer Science, the main areas of research are formal methods in the specification and verification of software systems, design and analysis of algorithms, computational complexity theory and computer security. In Physics, research is being carried out mainly in gravitation, quantum field theory, string theory and mathematical physics.

The Institute has well-established Ph.D. Programmes in Mathematics, Computer Science, and Physics.

Teaching at CMI

The aim of the Institute is to pursue excellence in both research and teaching. It is recognized all over the world that academic excellence is best cultivated by enabling the interaction between high quality researchers and talented students. In India, research institutions had traditionally been set up outside the university system. As a result, the wealth of scholarship and teaching talent available in these institutions could not be tapped by students in our colleges and universities.

With this in mind, CMI initiated, in 1998, a 3-year programme in Mathematics and Computer Science leading to a B.Sc. (Honours) degree, with the aim of training a select group of talented students for academic and professional careers requiring exceptional mathematical and computational skills. In 2001, the teaching programme at CMI was extended to include separate 2-year M.Sc. programmes. The Institute currently has two B.Sc. (Honours) programmes: Mathematics and Computer Science, and Mathematics and Physics, and three M.Sc. programmes: Mathematics, Computer Science, and Data Science.

CMI directly awards its B.Sc., M.Sc. and Ph.D. degrees. In December 2006, CMI was recognized as a university under Section 3 of the UGC Act 1956. In the initial years, the degrees were awarded by the Madhya Pradesh Bhoj (Open) University (MPBOU), Bhopal.

The Curriculum and the Teaching Faculty

The teaching curriculum is perhaps the best that is available in the country at the undergraduate and postgraduate levels.

All B.Sc. (Honours) students undergo the same core set of basic and advanced undergraduate courses in Mathematics. In addition, the B.Sc. (Honours) Mathematics and Computer Science programme also includes a number of courses on fundamental topics in Computer Science. Students in the B.Sc. (Honours) Mathematics and Physics programme undergo, instead, basic undergraduate courses oriented towards theoretical Physics. All these courses are taught by active researchers in mathematics, computer science and physics, who draw on their professional expertise to offer new insights into the subject matter.

The M.Sc. curriculum takes students into more advanced topics in Mathematics, Computer Science and Data Science. The course structure is flexible and designed so that students can lay a firm foundation for pursuing further research while also acquiring advanced skills that will enhance their effectiveness in professional careers.

All students at CMI have access to a well-equipped computer laboratory and a high-speed Internet connection available through a campus-wide wireless network, and are strongly encouraged to acquire computer related skills as part of their education.

The B.Sc. (Honours) programmes consist of six semesters of study over three years. The M.Sc. programmes consist of four semesters of study over two years. Each year, the first semester runs from August to November and the second semester runs from January to April.

The courses are taught by the faculty of CMI, as well as a distinguished set of adjunct faculty members. CMI also regularly offers courses by industy experts and visiting scientists from leading academic institutions in India and abroad.

Humanities

The undergraduate programme includes two compulsory Humanities courses. Electives are offered in areas such as literature, economics, foreign languages, art and music. The CMI Arts Initiative organizes regular cultural programmes and seminars throughout the year and supports an international writers' residency in collaboration with Sangam House, Bangalore.

Exchange Programmes

Chennai Mathematical Institute has a formal agreement with the École Normale Supérieure in Paris, France, one of the leading institutions in the world for teaching and research in Mathematics, for regular exchanges of visits by faculty and students.

The Institute has also had a formal agreement with the École Normale Supérieure Paris-Saclay in Saclay, France, for exchange of B.Sc. and M.Sc. students and for a joint Ph.D. programme.

CMI is a partner institution in the Future Research Talent Awards programme of the Australian National University (ANU) in Canberra that provides research internships for B.Sc. and M.Sc. students from CMI at ANU.

Since 2017, CMI has hosted the international joint research laboratory IRL ReLaX under CNRS, the French National Centre for Scientific Research. ReLaX provides opportunities for exchanges of students and faculty with French partners in computer science and mathematics.

For several years, CMI was a partner in the Erasmus Mundus Master Programme ALGANT (ALgebra Geometry And Number Theory), funded by the European Union. The ALGANT programme allows students to pursue Masters and Doctorate degrees across the institutions participating in the programme.

Placement

Students from CMI have gone on to pursue further studies at the best academic institutions in India and abroad. These include Berkeley, Caltech, Chicago, Cornell, Harvard, MIT, Penn, Princeton, Stanford and Yale in USA, ENS-Paris, Univ Paris-Sud and Univ Bordeaux in France, the Max Planck Institutes and Humboldt University in Germany and IITs, IISc, IMSc, ISI and TIFR in India. Several CMI alumni are now faculty members at leading academic institutions in India, including IISc, IISERs, IITs, IMSc, ISI and TIFR, not to mention CMI itself.

Students from CMI are also much sought after by industry across a variety of sectors, including software development, semiconductors, investment banking, analytics and healthcare. CMI's campus placement programme has an excellent track record. Typically, all students seeking jobs through campus placement are placed, with average pay packages exceeding Rs 17 lakh per year in 2022. More details are available at https://www.cmi.ac.in/~placement/

Several CMI alumni have also founded startups in India and abroad.

External engagement

CMI has set up a separate society called Algolabs to promote interaction with the industry. Algolabs undertakes training programmes and projects in areas such as analytics, optimization and risk management and provides opportunities for faculty and students to engage with industry on real-life applications of mathematical sciences.

CMI also engages with the government on projects related to data-driven decision making. CMI has signed an agreement to partner with the Tamil Nadu e-Governance Agency in such efforts.

In December 2020, CMI announced the creation of the Dr F C Kohli Centre of Excellence. The Centre will promote foundational research through an active visitors' programme and also engage actively with industry to address challenging problems in applied areas.

Campus and Hostel Facility

The Institute's campus is located in the SIPCOT Information Technology Park in Siruseri, on the outskirts of Chennai. In 2022, CMI acquired land for a second campus to host the activities of the F C Kolhi Centre.

CMI's programme is fully residential for B.Sc. students and students of M.Sc. Mathematics and Computer Science. Students are accommodated in the hostel on campus. The Institute has a regular transportation arrangement for students to visit the city for shopping and other activities.

Students pay hostel and mess fees at the start of each semester. Currently, the charges are Rs. 30,680 per semester, (Rs. 4,000, Rs. 22,680 Rs. 4,000 towards hostel fees, mess and establishment charges respectively). These charges are adjusted periodically to account for inflation.

Funding

One of the unique features of CMI in the Indian context is that its funding comes from diverse sources, both public and private. This has given the Institute the freedom to organize its activities in a manner that is best suited to achieving its goal of excellence in research and teaching.

The Institute receives substantial support for its activities from the Department of Atomic Energy (DAE), through the National Board for Higher Mathematics (NBHM). In the past, the

Institute has also received major grants from the Board of Research in Nuclear Sciences (BRNS) and the Department of Science and Technology (DST).

The Institute also receives generous contributions from the private sector. During the formative years of the Institute, the Southern Petrochemical Industries Corporation (SPIC) was a major source of funding and infrastructural support for CMI. Currently, the Shriram Group Companies, Chennai play a crucial role in providing and organizing private funding for the Institute. CMI also receives substantial support towards scholarships from the Cognizant Foundation and Trumpf Metamation.

The land for CMI's primary campus at Siruseri was acquired through a grant from the Shriram Group Companies. Major financial contributions towards building up the campus have come from Matrix Laboratories, Hyderabad, the Chennai Willingdon Corporate Foundation, Take Solutions, Chennai, the Infosys Foundation, Bangalore and Tata Consultancy Services. A multistorey building with classrooms, faculty office space and guest rooms has been constructed with funds from the Ministry of Human Resource Development (MHRD) via the University Grants Commission (UGC). Construction of the new campus is expected to be funded through private contributions.

The Institute also received a generous three year grant from Tata Consultancy Services from 2008–2011 to support academic activities. The Infosys Foundation contributed a large corpus to CMI in 2014. The Tata Trust has also provided funding to the Institute. In addition, Microsoft Research has provided substantial support through research and travel grants.

CMI also receives funding for research projects, both from government agencies as well as from private organizations.

2 B.Sc. (Honours) Programmes (Mathematics and Computer Science, Mathematics and Physics)

Admission and eligibility

Students who have already passed, or expect to pass in 2023, the 12th standard (or equivalent) examination from a recognized board are eligible for admission to the programme. Admission is through a written entrance examination to be conducted at centres throughout the country on **7 May, 2023**. Students with exceptionally good performance in National Science Olympiads may be exempted from writing the entrance examination at the discretion of the Admissions Committee. Details about the admission procedure are available at the CMI website, https://www.cmi.ac.in/admissions.

Fees and scholarships

The tuition fee is Rs 1,25,000/- per semester (two semesters in a year). About 30–35 scholarships will be available, consisting of a full waiver of the tuition fees for three years. In addition, a limited number of fellowships will be available, with a monthly stipend of Rs. 5,000. After the first year, continuation of the monthly stipend will depend on satisfactory academic performance.

CMI is committed to a policy of financial inclusion and strives to ensure that no student is denied an opportunity to study at CMI due to economic circumstances. Towards this goal, partial and total tuition fee waivers will also be available, based on the financial background of the student. An annual family income of Rs 8 lakh or less qualifies for a 100% waiver and an annual family income of Rs 12 lakh or less qualifies for a 50% waiver. Financial assistance requests are processed after admissions are finalized.

Course details

Regular full semester courses at CMI carry 4 credits. A student must complete a minimum of 112 credits (28 regular courses) to earn a BSc (Honours) degree. Some elective courses run for shorter periods and carry 2 credits or 1 credit. These may be accumulated to make up the credit requirement under Electives.

The **B.Sc. (Honours) Programme in Mathematics and Computer Science** is a three-year course. The following is the semester-wise schedule of courses.[1]

Semester I	Semester II
Algebra I	Advanced Programming
Analysis I	Algebra II
Humanities I (English)	Analysis II
Introduction to Programming	Discrete Mathematics
Classical Mechanics I	Probability Theory

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[1]Small variations may be incorporated in this schedule, as recommended by the Academic Council.

Semester III	**Semester IV**
Algebra III	Complex Analysis
Analysis III	Differential Equations
Design and Analysis of Algorithms	Programming Language Concepts
Calculus	Topology
Theory of Computation	Elective I

Semester V	**Semester VI**
Elective II	Humanities II
Elective III	Elective VI
Elective IV	Elective VII
Elective V	Elective VIII

All students must complete a compulsory one semester non-credit course in Environmental Science.

The **B.Sc. (Honours) Programme in Mathematics and Physics** is a three-year course. The following is the semester-wise schedule of courses.[2]

Semester I	**Semester II**
Algebra I	Algebra II
Analysis I	Analysis II
Humanities I (English)	Probability Theory
Introduction to Programming	Classical Mechanics II
Classical Mechanics I	Electrodynamics I

Semester III	**Semester IV**
Algebra III	Complex Analysis
Analysis III	Differential Equations
Calculus	Topology
Quantum Mechanics I	Optics
Thermal Physics	Quantum Mechanics II

Semester V	**Semester VI**
Elective I	Humanities II
Elective II	Elective V
Elective III	Elective VI
Elective IV	Elective VII

Of the seven elective courses, one must be a laboratory course. All students must complete a compulsory one semester non-credit course in Environmental Science.

Detailed information about the courses is available at the CMI website, https://www.cmi.ac.in/teaching.

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[2]Small variations may be incorporated in this schedule, as recommended by the Academic Council.

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3   M.Sc. Programme in Mathematics

Admission and eligibility

Students who have obtained, or expect to obtain in 2023, undergraduate degrees such as B.A., B.Sc., B.Math., B.Stat., B.E., B.Tech., ... with a strong background in Mathematics are eligible to apply for the programme. Admission is through a written entrance examination to be conducted at centres throughout the country on **7 May, 2023**, followed by an interview in Chennai. Details about the admission procedure are available at the CMI website, https://www.cmi.ac.in/admissions.

Fees and scholarships

The tuition fee is Rs 1,25,000/- per semester (two semesters in a year). A substantial number of scholarships will be available, consisting of a full waiver of the tuition fees for two years. The number of scholarships will be roughly equal to the number of students admitted in recent batches of MSc Mathematics. In addition, a limited number of fellowships will be available, with a monthly stipend of Rs. 6,000. After the first year, continuation of the monthly stipend will depend on satisfactory academic performance.

CMI is committed to a policy of financial inclusion and strives to ensure that no student is denied an opportunity to study at CMI due to economic circumstances. Towards this goal, partial and total tuition fee waivers will also be available, based on the financial background of the student. An annual family income of Rs 8 lakh or less qualifies for a 40% waiver and an annual family income of Rs 12 lakh or less qualifies for a 25% waiver. Financial assistance requests are processed after admissions are finalized.

Courses

Regular full semester courses at CMI carry 4 credits. A student must complete a minimum of 64 credits (16 regular courses) to earn an MSc degree in Mathematics. Some elective courses run for shorter periods and carry 2 credits or 1 credit. These may be accumulated to make up the credit requirement under Electives. Part of the course-work for the MSc Mathematics programme is concurrent with the PhD Mathematics programme. [3]

Semester I	**Semester II**
Graduate Algebra I	Graduate Algebra II
Graduate Analysis I	Graduate Analysis II
Graduate Topology I	Graduate Topology II
Introduction to Manifolds	Complex Analysis

Semester III	**Semester IV**
Directed Reading	MSc Thesis
Elective I	Elective IV
Elective II	Elective V
Elective III	

The MSc Thesis in the final semester carries 8 credits (equivalent to two regular courses). At the discretion of the Board of Studies, a student who has already completed any of the compulsory

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[3]Small variations may be incorporated in this schedule, as recommended by the Academic Council.

courses as an undergraduate may substitute these courses by a suitable number of optional courses to make up the overall course requirements.

The list of elective courses being offered each year will be announced at the beginning of the academic year. Detailed information about all courses is available at the CMI website, https://www.cmi.ac.in/teaching.

4 M.Sc. Programme in Computer Science

Admission and eligibility

Students who have obtained, or expect to obtain in 2023, undergraduate degrees such as B.A., B.Sc., B.Math., B.Stat., B.E., B.Tech., ... with a strong background in Computer Science are eligible to apply for the programme. Admission is through a written entrance examination to be conducted at centres throughout the country on **7 May, 2023**. Details about the admission procedure are available at the CMI website, https://www.cmi.ac.in/admissions.

Fees and scholarships

The tuition fee is Rs 1,25,000/- per semester (two semesters in a year). A substantial number of scholarships will be available, consisting of a full waiver of the tuition fees for two years. The number of scholarships will be roughly equal to the number of students admitted in recent batches of MSc Computer Science. In addition, a limited number of fellowships will be available, with a monthly stipend of Rs. 6,000. After the first year, continuation of the monthly stipend will depend on satisfactory academic performance.

CMI is committed to a policy of financial inclusion and strives to ensure that no student is denied an opportunity to study at CMI due to economic circumstances. Towards this goal, partial and total tuition fee waivers will also be available, based on the financial background of the student. An annual family income of Rs 8 lakh or less qualifies for a 40% waiver and an annual family income of Rs 12 lakh or less qualifies for a 25% waiver. Financial assistance requests are processed after admissions are finalized.

Courses

Regular full semester courses at CMI carry 4 credits. A student must complete a minimum of 64 credits (16 regular courses) to earn an MSc degree in Computer Science. Some elective courses run for shorter periods and carry 2 credits or 1 credit. These may be accumulated to make up the credit requirement under Electives. The list of courses in the programme is given below.[4]

1. **Core courses**

   Functional Programming in Haskell
   Programming Language Concepts
   Design and Analysis of Algorithms
   Theory of Computation
   Mathematical Logic

   At the discretion of the Board of Studies, a student who has already completed any of the core courses as an undergraduate may substitute these courses by a suitable number of alternative courses to make up the overall course requirements.

2. **Electives**

   The elective courses that have been offered at CMI in recent years include:

   Approximation Algorithms, Automata Theory and Verification, Coding Theory, Complexity Theory, Computer Vision, Concurrent Programming, Cryptography and Security, Basic and Advanced Machine Learning, Digital Systems Design and Modelling, Finite Model Theory, Logical Foundations of Databases, Model Checking and Systems

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[4]Small variations may be incorporated in this schedule, as recommended by the Academic Council.

Verification, Natural Language Processing, Optimization, Probability and Statistics, Program Analysis, Quantitative Automata Theory, Quantum Computing, Randomized Algorithms, Reinforcement Learning, Theorem Proving

The exact list of elective courses being offered will be announced at the beginning of each semester.

3. **Project/Dissertation**

The project/dissertation carries 16 credits (the equivalent of four regular courses).

Detailed information about the courses is available at the CMI website, https://www.cmi.ac.in/teaching.

5 M.Sc. Programme in Data Science

Admission and eligibility   Students who have obtained, or expect to obtain in 2023, undergraduate degrees such as B.A., B.Sc., B.Math., B.Stat., B.E., B.Tech., ... with a background in Mathematics, Statistics or Computer Science, are eligible to apply for the programme. Admission is through a written entrance examination to be conducted at centres throughout the country on **7 May, 2023**. Details about the admission procedure are available at the CMI website, https://www.cmi.ac.in/admissions.

Fees and scholarships   The tuition fee is Rs 2,50,000/- per semester (two semesters in a year). Hostel accommodation is not available for this programme.

CMI is committed to a policy of financial inclusion and strives to ensure that no student is denied an opportunity to study at CMI due to economic circumstances. Towards this goal, partial and total tuition fee waivers will also be available, based on the financial background of the student. An annual family income of Rs 8 lakh or less qualifies for a 40% waiver and an annual family income of Rs 12 lakh or less qualifies for a 25% waiver. Financial assistance requests are processed after admissions are finalized.

Courses

Regular full semester courses at CMI carry 4 credits. A student must complete a minimum of 64 credits (16 regular courses) to earn an MSc degree in Data Science. Some elective courses run for shorter periods and carry 2 credits or 1 credit. These may be accumulated to make up the credit requirement under Electives. The course structure is given below.[5]

Semester 1

Mathematical Methods – Analysis
Probability and Statistics with R
Programming and Data Structures with Python
Visualization (2 credits)
RDBMS and SQL (2 credits)

Semester II

Linear Algebra and its Applications
Data Mining and Machine Learning
Algorithm Design Techniques
Distributed Computing and Big Data

Semester III

Predictive Analytics – Regression and Classification
Advanced Machine Learning
Elective I
Elective II

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[5]Small variations may be incorporated in this schedule, as recommended by the Academic Council.

Semester IV

Elective III
Elective IV
Elective V
Elective VI

Elective courses

1. Advanced Regression and Classification
2. Algorithmic Trading
3. Algorithms for Big Data
4. Bayesian Data Analysis
5. Computer Vision
6. Economics
7. Finance
8. Financial Data Analysis
9. Industry Project
10. Mathematical Modeling
11. Natural Language Processing
12. Optimization
13. Reinforcement Learning
14. Risk Management
15. Text Analytics

Detailed information about the courses is available at the CMI website, https://www.cmi.ac.in/teaching.

6 Ph.D. Programmes
(Mathematics, Computer Science, Physics)

Eligibility

- *Ph.D. in Mathematics*: Students with an M.Sc. degree in Mathematics or equivalent and students with a bachelors degree in Engineering or Science with a strong aptitude for research.
- *Ph.D. in Computer Science*: Students with a B.E., B.Tech., M.Sc., or M.C.A. degree and students with a bachelors degree in Science with a strong aptitude for research.
- *Ph.D. in Physics*: Students with an M.Sc. degree in Physics or equivalent.

Admission For PhD Mathematics and Computer Science, admission is through a written entrance examination to be conducted at centres throughout the country on **7 May, 2023**, followed by an interview in Chennai. For PhD Physics, students qualify for an interview based on the Joint Entrance Screening Test (JEST) in Physics. Details about the admission procedure are available at https://www.cmi.ac.in/admissions.

Courses and research Students admitted to the Ph.D. programme are expected to complete 1–2 years of compulsory course work. There is also a qualifying examination, to be taken within the first two years. Continuation in the programme is contingent on performance in the Ph.D. courses and the qualifying examination.

After passing the qualifying examination, students are assigned guides and begin their research work. Their progress is monitored periodically by a doctoral committee.

Fees and scholarships There are no tuition fees for PhD students. Research Scholars get a stipend of Rs 31000 per month for the first two years and Rs 35000 per month for the next three years, along with an annual book grant of Rs 10000. Research Scholars can stay in the hostel during the first year. Research Scholars who do not stay in the hostel are eligible for a house rent allowance of 24% of stipend per month. The scholarship amounts are revised periodically, and are on par with the premier research institutes in India.

At the discretion of the Admissions Committee, students with a B.Sc. degree and those switching subjects may be admitted as Pre-Ph.D. students. For the first two years, Pre-Ph.D. students will be enrolled as a regular M.Sc. students in the corresponding subject. Till they complete their M.Sc. coursework or pass the Ph.D. qualifying examination, Pre-Ph.D. students will receive a reduced scholarship, but will be eligible for other benefits similar to regular Ph.D. students.

Part-Time PhD Programme

CMI has a part-time PhD programme to allow students to complete a PhD while continuing to work for their parent organizations. Part-time students are admitted based on a written entrance examination and an interview, like regular PhD students. Students must already have a Masters degree to be admitted to the part-time PhD programme. There is a minimum residency requirement of one semester.

7 Governing Council, Chennai Mathematical Institute

1. Prof. R. Balasubramanian (Chairman),
   Institute of Mathematical Sciences (retired)

2. Prof. Manindra Agrawal,
   Indian Institute of Technology Kanpur

3. Prof. V. Balaji,
   Chennai Mathematical Institute

4. Dr. Ravi Kannan,
   Microsoft Research, Bangalore

5. Prof. Rajeeva L. Karandikar,
   Former Director, Chennai Mathematical Institute

6. Prof. Madhavan Mukund,
   Director, Chennai Mathematical Institute

7. Prof. V. Kumar Murty,
   University of Toronto
   Director, Fields Institute

8. Prof. Nitin Nitsure,
   Tata Institute of Fundamental Research, Mumbai (retired)

9. Prof. Bimal Roy,
   Indian Statistical Institute, Kolkata

10. Prof. V. Srinivas,
    Tata Institute of Fundamental Research, Mumbai
    Chairman, National Board for Higher Mathematics

11. Prof. K.V. Subrahmanyam,
    Dean of Studies, Chennai Mathematical Institute

12. Prof. P.S. Thiagarajan,
    National University of Singapore (retired)

8   Academic Council, Chennai Mathematical Institute

1. Prof. Madhavan Mukund, (Chairman)
   Director, Chennai Mathematical Institute

2. Prof. K.V. Subrahmanyam, (Convenor)
   Dean of Studies, Chennai Mathematical Institute

3. Prof. V. Balaji,
   Chennai Mathematical Institute

4. Prof. R. Balasubramanian,
   Institute of Mathematical Sciences (retired)

5. Prof. Rajesh Gopakumar,
   International Centre for Theoretical Studies, Bangalore

6. Prof. R.L. Karandikar,
   Chennai Mathematical Institute

7. Prof. S. Kesavan,
   Institute of Mathematical Sciences (retired)

8. Prof. Hema Murthy,
   Indian Institute of Technology Madras

9. Prof. Shobhana Narasimhan,
   Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore

10. Prof. T.R. Ramadas,
    Chennai Mathematical Institute

11. Prof. Nitin Saxena,
    Indian Institute of Technology Kanpur

12. Prof. Riddhi Shah,
    Jawaharlal Nehru University, New Delhi

13. Prof. Sudeshna Sinha,
    Indian Institute of Science Education and Research, Mohali

14. Prof. Jugal Verma,
    Indian Institute of Technology Bombay