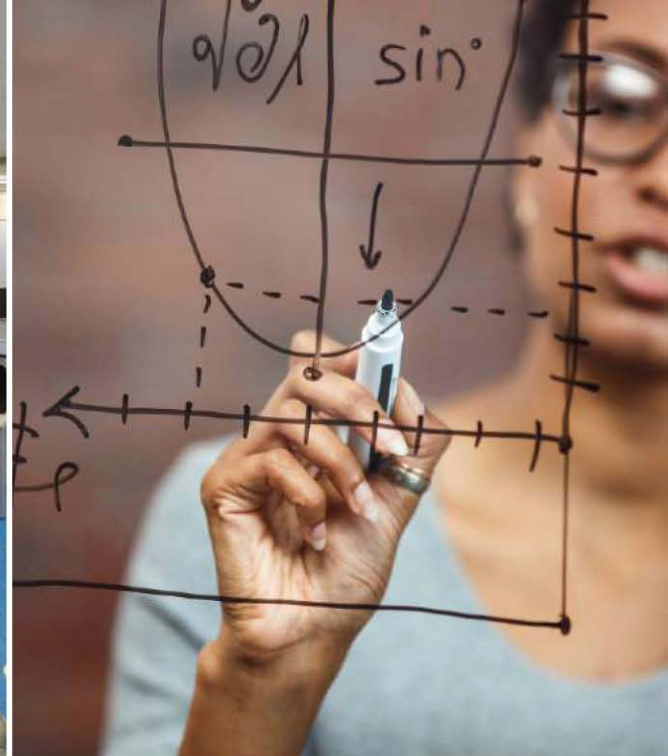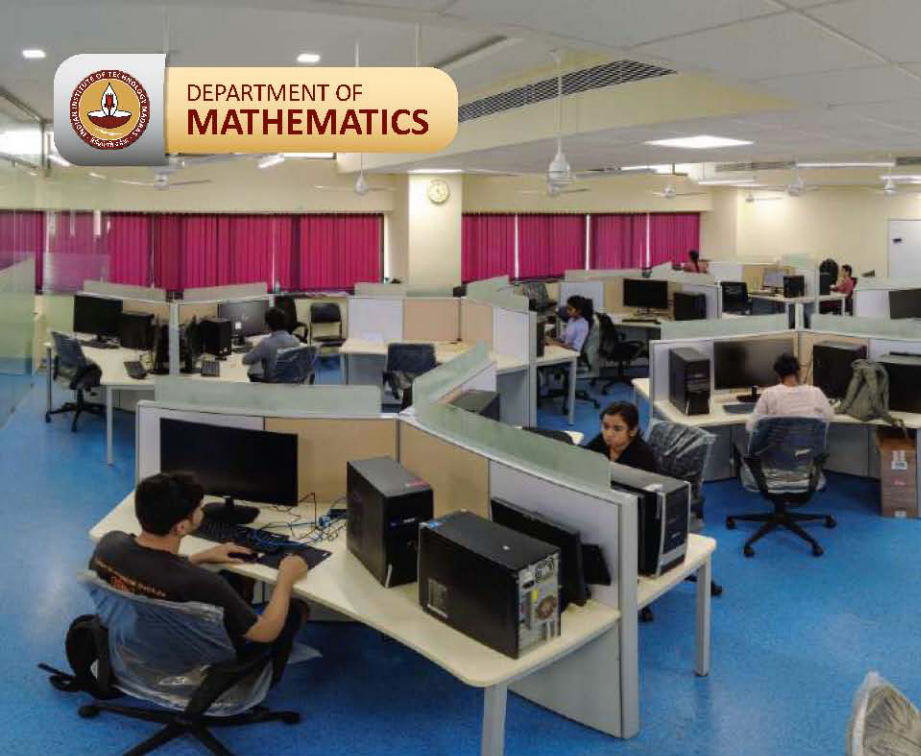The Department of Mathematics, IIT Madras was established in 1959, the same year as that of the Institute. The Department offers M.Sc (Mathematics), M. Tech. (Industrial Mathematics and Scientific Computing) and Ph.D. programmes.

The Department continues to adhere to high standards in teaching and research. This attracts the best students for our M.Sc., M.Tech. and Ph.D. programmes. There are 41 faculty members, 115 Ph.D. scholars, 89 M.Sc. students, 44 M.Tech. students and a few post-doctoral students.

The department has expertise in areas (broad): Algebra & Number theory, Topology & Geometry, Analysis related topics, Differential equations & Applied mathematics, Discrete mathematics & theoretical computer science, Probability & statistics.

Prof. Arindama Singh
Head of the Department

M.Tech Programme

M.Tech. in Industrial Mathematics and Scientific Computing (MA1)

The primary objective of this Programme is to train the manpower required to deal with the problems faced by industry through knowledge of mathematical modelling and scientific computational techniques so as to achieve reduced costs, flexibility and high quality. The curriculum is interdisciplinary in nature, and the course contents provide a broad understanding of the different aspects of applied mathematics and computer applications. The lecture-based courses cover a wide spectrum of topics, including mathematical modelling, applied statistics, and probability, operations research, numerical methods, discrete mathematics, data structures and simulation. The laboratory courses provide necessary training in advanced techniques of software and simulation. Students are also required to take suitable courses from the engineering and science departments. Modelling workshops, spread over two semesters, are an integral part of the Programme, during which the students gain proficiency in the modelling of real-world problems, experience in teamwork and effective technical communication. An important component of the Programme is the project work that will be done by the student in collaboration with industry and engineering / science departments. The aim of the projects is to impart in-depth training in the analysis of problems relevant to the industry.

M.Sc. Programme

M.Sc. in Mathematics

The Master of Science programme, running successfully for the past sixty years, aims at mainly training the students to pursue a research career in Mathematics, where advanced electives are offered even from the third semester onwards. At the end of this programme, the students generally find themselves doing doctoral research or pursue higher education in mathematics, in India or abroad. Currently around 90 students are enrolled into this programme.

More information about the programme is available on the following website: https://math.iitm.ac.in/
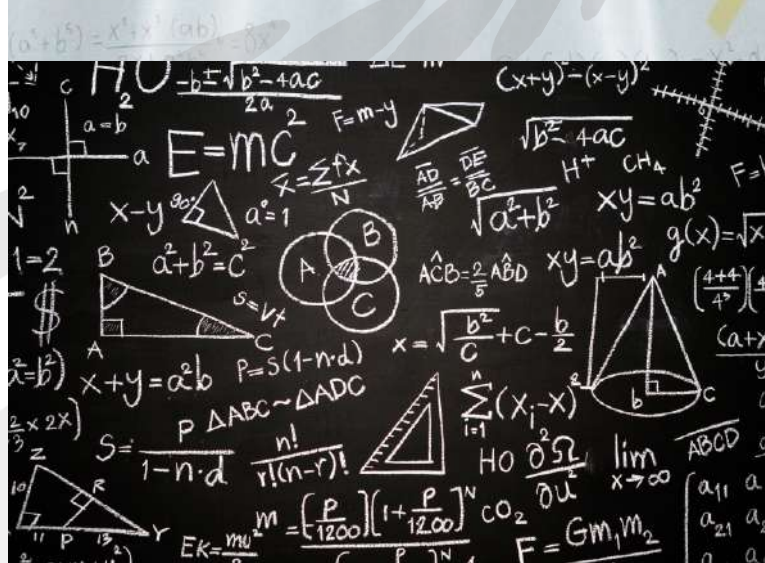
Placements

Faculty

Dr. Vetrivel V
Dr. Arindama Singh
Dr. S. Ponnusamy
Dr. R. Rama
Dr. Satyajit Roy
Dr. S. Sundar
Dr. Y.V.S.S. Sanyasiraju
Dr. R. Radha
Dr. K. C. Sivakumar
Dr. Ch. Srinivasa Rao
Dr. S. R. Manam
Dr. A.K.B. Chand
Dr. A. V. Jayanthan
Dr. A. J. Shaiju

Dr. Kalpana Mahalingam
Dr. Shruti Dubey
Dr. Kunal Krishna Mukherjee
Dr. Santanu Sarkar
Dr. R. Balaji
Dr. Sounaka Mishra
Dr. Arijit Dey
Dr. Neelesh S Upadhye
Dr. V. Uma
Dr. T. V. Anoop
Dr. Soumen Sarkar
Dr. Priyanka Shukla
Dr. N. Narayanan
Dr. Sarang S. Sane

Dr. T. E. Venkata Balaji
Dr. Suhas J. Pandit
Dr. B. Sriram
Dr. K. Sumesh
Dr. Dipramit Majumdar
Dr. Sivaram Ambikasaran
Dr. Aprameyan P.
Dr. Ramesh Kasilingam
Dr. Barun Sarkar
Dr. Surjit Kumar
Dr. Arunkumar G.
Dr. A Sathish Kumar
Dr. Anuj Jakhar
Dr. R. Usha