

MAEER'S
MIT | Arts, Commerce
& Science College

Affiliated to Savitribai Phule Pune University

Accredited by NAAC with "A" Grade

MIT Arts, Commerce
& Science College

Academic Year

2024-25

M.Sc. (Industrial Mathematics
with Computer Applications)

About Us

MIT Arts, Commerce and Science College established by Prof. (Dr.) Vishwanath Karad in 2007 under the aegis of Maharashtra Academy of Engineering and Educational Research (MAEER) Pune, affiliated with Savitribai Phule Pune University and recognised by the Government of Maharashtra has emerged as a prominent institute emphasizing on quality education, research opportunities and exposure to advancing academic innovation and engaging students, staff, alumni, and other stakeholders to achieve its educational goals. Located in a peaceful and nurturing environment, the college is Equipped with top- notch infrastructure with latest technological advancements and excellent library facilities for seamless academic activities. Research and academic programmes are driven by our highly qualified and experienced faculty members who foster in-depth knowledge and practical skills through active learning, field visits, expert guidance, training programs, research support, and continuous assessment. We have the Training and Placement Cell who facilitates the process of campus placement, strives to help students in improving communication and employment- seeking skills and assist to explore the various job opportunities thus leading to best placements amongst educational institute in Pune.

Awards, Affiliations and Recognition:

- ❖ MIT ACSC College is Accredited by NAAC with a CGPA of 3.21 on a Four point scale at 'A' Grade.
- ❖ Affiliated to Savitribai Phule Pune University and recognised by the Government of Maharashtra.
- ❖ Our educational institution in Pune, Maharashtra, has received the Education Excellence Award for achieving outstanding placements amongst other regional institutions.
- ❖ We are proud to have received the Best College Award in Rural Area for two consecutive years (2015-16 & 2016-17) from Savitribai Phule Pune University. We recognise our commitment to providing quality education in underserved areas.
- ❖ Our efforts towards student development have been acknowledged with the University Level Best College Award for 2017-18 by Savitribai Phule Pune University, underscoring our dedication to nurturing well-rounded individuals.
- ❖ We are ranked among the top colleges in India by India Today MDRA Best Colleges Ranking for 2018, 2019, 2020, and 2022, attesting to our reputation for excellence in education.
- ❖ MITACSC has secured the 3rd position in the prestigious TOP 10 EMERGING COLLEGES 2022, recognizing colleges established in or after 2010 for outstanding performance. The college is proud of its accomplishments and advancements and is committed to owning its promising future.

MIT ACSC offers a wide range of Undergraduate and Postgraduate programs:

Undergraduate Programs

- ❖ B.Com. (Bachelor of Commerce)
- ❖ BBA (Bachelor of Business Administration)
- ❖ BBA (International Business)
- ❖ BBA (Computer Application)
- ❖ BCA (Science)
- ❖ B.Sc. (Animation)
- ❖ B.Sc. (Computer Science)
- ❖ B.Sc. (Cyber & Digital Science)
- ❖ B.Sc. (Information Technology)

Postgraduate Programs

- ❖ M.Sc. (Computer Science)
- ❖ M.Sc. (Computer Application)
- ❖ M.Sc. (Data Science)
- ❖ M.Sc. (Industrial Mathematics with Computer Application)

Ph.D.

- ❖ Ph.D. - Mathematics



M.Sc.

Industrial Mathematics with Computer Applications

About the Course

M.Sc. (Industrial Mathematics with Computer Applications) is the two years, fulltime program designed as per National Education Policy 2020 by considering the rapid changes in science and technology and new approaches in different areas of Mathematics and related subjects. The changing scenarios of higher education in India and abroad are taken into account to orient curricula towards the application of Mathematics and Computer Science in Research and Industry. The curriculum includes the subjects related to Industrial Mathematics, Core Computer Subjects as well as the Emerging Technologies in Computer Science. Theoretical courses help lay the foundation for developing logical thinking, while practical courses provide practical experience related to industrial requirements.

Scope of M.Sc (Industrial Mathematics with Computer Applications)

- It provides students with the skills and knowledge they need to solve complex industrial problems using mathematical and computational tools.
- Adequate exposure to global and local concerns so as to explore many aspects of Mathematical Sciences.
- It develops relational understanding of mathematical concepts and structures with mathematical reasoning.
- It provides a platform for the application of mathematical skills and knowledge for societal issues.
- It develops the ability to write necessary algorithms and programs in different languages as per the need of the industry.
- It prepares students for research and development in industrial and engineering fields that use mathematical and computational methods.

Why choose MIT ACSC?

The course structure offered by MIT ACSC incorporates subjects related to the most advanced and latest developments in software and information technology. The curriculum includes in-demand courses such as python programming, android programming, and Django. Hence, it helps students upgrade their knowledge and understanding of the discipline. The institute has a history of producing outstanding software professionals who have found a place in top companies. The college collaborates with several companies that offer internships and campus placements to start their careers. The institute offers various skill development courses that help improve their skills and enhance their competence. These courses boost their confidence to face the real world through interactive sessions and hands-on training in several technical and personal skills.

Eligibility



B. Sc./ B. E./ B. Tech.(Mathematics subject at least at second year).

How to Apply?



An eligible student has to apply through the college application form for the entrance examination conducted by college. Admissions will be offered to the students on the basis of their Entrance Exam score.



Program Structure

M.Sc. (Industrial Mathematics with Computer Applications)

M.Sc. (IMCA) Part - I

Year	Level	Sem.	Course Type	Code	CourseTitle	Remark	Credit	No.of Hours
1	6.0	I	Core	IMT-411	Linear Algebra	T & P	4 (2T+2P)	30 + 60
			Core	IMT-412	Discrete Mathematical Structure	T	2	30
			Core	IMT-413	Object Oriented Programming using C++	T	2	30
			Core	IMT-414	Data Base Management System	T	2	30
			Core	IMT-415	Labon C++ and DBMS	P	4	120
			Elective	IMT-416 (A)	Statistical Methods	T & P (Choose Anyone)	4	30+60
				IMT-416 (B)	Numerical Analysis			
		IMT-416 (C)		Operations Research				
		RM	IMT-417	Research Methodology	T & P	4 (2T+2P)	30+60	
		II	Core	IMT-421	Foundation of Analysis	T	4	60
			Core	IMT-422	Applied Algebra	T	4	60
			Core	IMT-423	Data Structure	T	2	30
			Core	IMT-424	Java Programming	P	4	120
			Elective	IMT-425(A)	Web Technology	T/P (Choose Anyone)	4	30+60
IMT-425(B)	Financial Mathematics							
IMT-425(C)	Computational Geometry							
OJT/FP	IMT-426	On Job Training or Field Project	P	4	120			

M.Sc. (IMCA) Part - II

Year	Level	Sem.	Course Type	Code	CourseTitle	Remark	Credit	No.of Hours
2	6.5	III	Core	IMT-531	Ordinary Differential Equations	T	4	60
			Core	IMT-532	Computer Networks	T	2	30
			Core	IMT-533	Design and Analysis of Algorithm	T	4	60
			Core	IMT-534	Data Analysis Using Python	P	4	120
			Elective	IMT-535 (A)	Data Mining	T & P (Choose Anyone)	4	30+60
				IMT-535 (B)	Dot Net			
				IMT-535 (C)	Statistical Inference			
		RP	IMT-536	Research Project	P	4	120	
		IV	Core	IMT-541	Soft. Engg. and Testing	T	4	60
			Core	IMT-542	Optimization Techniques	T	4	60
			Core	IMT-543	Artificial Intelligence & Machine Learning	P	4	120
			Elective	IMT-544(A)	Go Programming	T/P (Choose Anyone)	4	30+60
				IMT-544(B)	DEFI Block chain Technology			
				IMT-544(C)	Graph Theory			
RP	IMT-545	Research Project	P	6	180			

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Computer Lab



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Class Room



Play Ground



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Laboratory



Laboratory



Class Room



Indoor Sports

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MIT | Arts, Commerce
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MIT Arts, Commerce & Science
College, Alandi (D) - Pune

Tel: +91-8055350000

Email: admission@mitacsc.ac.in

www.mitacsc.ac.in