

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. (Computer Science)**

## 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.

## (Computer Science)

### About the Course

M.Sc. in computer science is a career-making course for computer enthusiasts. It focuses on the development of software and networking-based skills. The curriculum is meticulously designed for honing abilities in learning new technology, grasping the concepts and difficulties underlying computer use, and developing advanced programming skills and strategies to address diverse logical challenges using different programming languages.

The programme's curriculum focuses on preparing students for innovation within major tech companies or entrepreneurship within startup ventures. This program provides technology-oriented students with the knowledge and skills to produce creative solutions and better understand the impact of future developments in computer systems and technology on people and society.

### Scope of M.Sc. (computer science)

Due to the rapid growth of computer applications and their need in life, there are many job opportunities in various fields for students graduating from this programme. Various job opportunities are available like computer and information research scientist, software developer, network architect, database administrator, web developer, mobile app developer, computer system analyst, etc., System Integrator, Data Scientist and System Analyst.

### Why choose MIT ACSC?

- Students are provided with opportunities to develop and hone core competency in the field of computer science and encourage them to make a mark in the much sought after IT industry.
- Learn Machine Learning, Soft Computing, Cloud Computing, Big Data Analytics, Mobile Technologies, and Web Framework (NodeJS, ExpressJS).
- Mandatory 6 months Industrial training & IT project in the curriculum.
- Opportunities to work as a Software Developer, System Integrator, Data Scientist and System Analyst.
- Opportunities to get higher education in – M.tech, M.Phil & Ph.D.
- 100 % Placement Assistance

## Eligibility



Bachelor of Computer Science (B.C.S.) OR B.Sc.(Computer Science) OR B.C.A.(Science) OR B.Sc.(Information Technology) OR B.Sc.(Data Science) OR B.Sc.(Cyber and Digital Science) OR B.Sc. (Cyber Security) OR B.Sc. (Cloud Computing) OR (i) Bachelor of Engineering (BE) in Computer Science/Information Technology/Electronics and Telecommunication/AI and Data Science/AI and Machine Learning/ equivalent OR (ii) B.Voc. in Software Development/ Information Technology (iii) B.Sc. with Computer Science as Principal Subject (iv) General B.Sc. with Computer Science as one of the subject at TYBSc level.

## 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. (Computer Science)

### SEMESTER I

Code	Course Title	Credits	
		Theory	Practical
CS-501-MJ	Advanced Operating System	4	
CS-502-MJ	Artificial Intelligence	4	
CS-503-MJ	Principles of Programming Languages	2	
CS-504-MJP	Lab course on CS-501-MJ		2
CS-505-MJP	Lab course on CS-502-MJ		2
CS-510-MJ	Advance Databases and Web Technologies	2	
CS-511-MJP	Lab course on CS-510-MJ		2
	OR		
CS-512-MJ	Cloud Computing	2	
CS-513-MJP	Lab course on CS-512-MJ		2
	OR		
CS-514-MJ	C# .NET Programming	2	
CS-515-MJP	Lab Course on CS-514-MJ		2
CS-531-RM	Research Methodology		

### SEMESTER II

Code	Course Title	Credits	
		Theory	Practical
CS-551-MJ	Design and Analysis of Algorithms	4	
CS-552-MJ	Mobile App Development Technologies	4	
CS-553-MJ	Software Project Management	2	
CS-554-MJP	Lab course on CS-551-MJ		2
CS-555-MJP	Lab course on CS-552-MJ		2
CS-560-MJ	Full Stack Development - I	2	
CS-561-MJP	Lab Course on CS-560-MJ		2
	OR		
CS-562-MJ	Web Services	2	
CS-563-MJP	Lab Course on CS-562-MJ		2
	OR		
CS-564-MJ	ASP.NET Programming	2	
CS-565-MJP	Lab course on CS-564-MJ		2
CS-581-OJT	On Job Training/Internship		4

### SEMESTER III

Code	Course Title	Credits	
		Theory	Practical
CS-601-MJ	Software Architecture & Design Pattern	4	
CS-602-MJ	Machine Learning	4	
CS-603-MJ	Internet of Things	2	
CS-604-MJP	Lab course on CS-601-MJ and 603		2
CS-605-MJP	Lab course CS-602-MJ		2
CS-610-MJ	Full Stack Development- II	2	
CS-611-MJP	Lab Course on CS-610-MJ		2
	OR		
CS-612-MJ	DevOps Fundamentals	2	
CS-613-MJP	Lab Course on CS-612-MJ		2
	OR		
CS-614-MJ	Soft Computing	2	
CS-615-MJP	Practical on CS-614-MJ		2
CS-631-RP	Research Project Work		4

### SEMESTER IV

Code	Course Title	Credits	
		Theory	Practical
CS-651-MJP	Full Time Industrial Training (IT)		12
CS-652-MJ	Online / MOOC (Elective Courses List)	4	
CS-681-RP	Research Project Work		6

#### Abbreviations

CS	Computer Science	MJ	Major Theory
RM	Research Methodology	MJP	Major Practical
T	Theory	P	Practical
OJT	On Job Training	RP	Research Project
CE	Continuous Evaluation	EE	End semester Evaluation
MOOC	Massive Open Online Course		

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# College Campus



Computer Lab



Class Room



Canteen



Play Ground



Computer Lab



Indoor Sports



Class Room



Computer Lab



Library



Garden



Class Room



Play Ground



Electronics Lab



Laboratory



Laboratory



Class Room



Indoor Sports

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