



# **MIT | Arts, Commerce & Science College**

Autonomous College Affiliated to Savitribai Phule Pune University  
Accredited by NAAC with "A" Grade

## **M.Sc. Computer Application**

**ACADEMIC YEAR 2026-27**



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.

#### **Undergraduate Programs**

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

#### **Postgraduate Programs**

- ❖ M.Sc. (Computer Science)
- ❖ M.Sc. (Data Science)
- ❖ M.Sc. ( Cyber & Digital Science )
- ❖ M.Sc. ( Computer Application)
- ❖ M.Sc. ( Information Technology )
- ❖ M.Sc. ( Industrial Mathematics with Computer Application)

#### **Ph.D.**

- ❖ Ph.D. - Mathematics

# M.Sc. Computer Application

## ----- About the Course -----

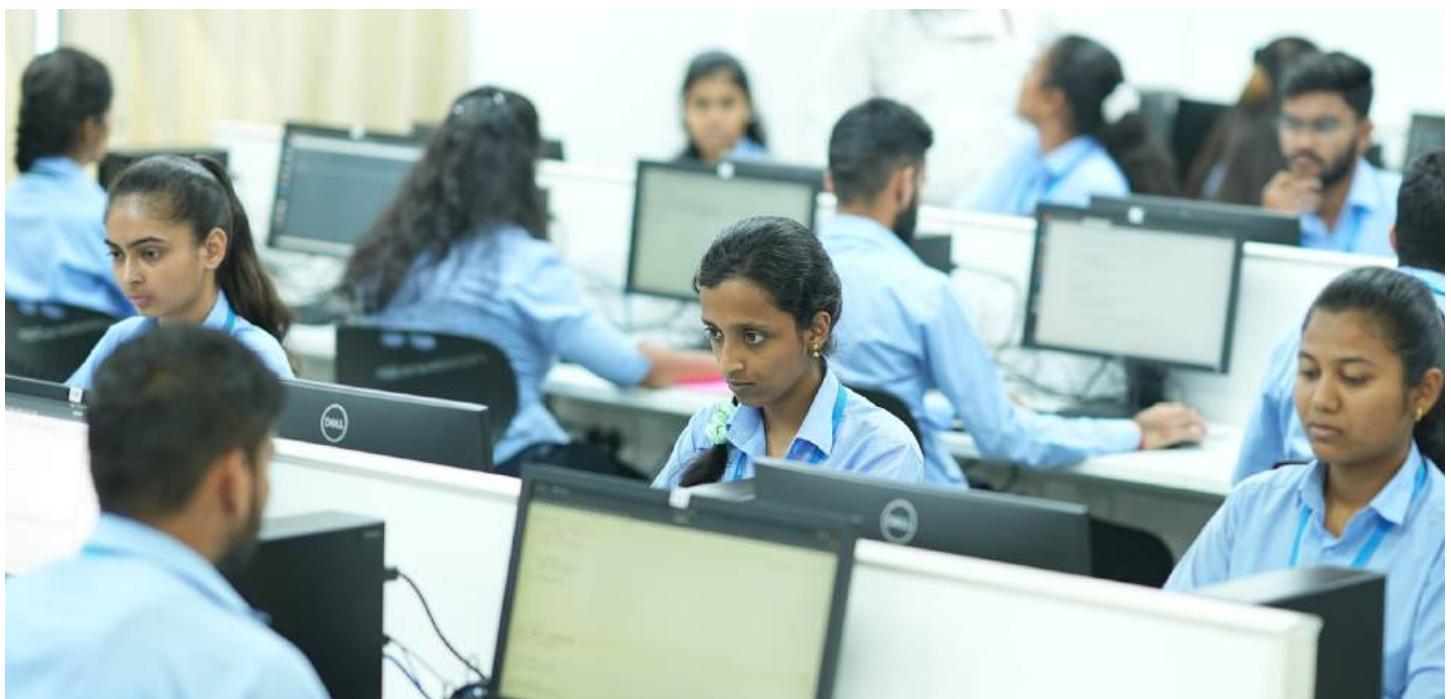
Master in Computer Application introduces the students to the concepts of computer programming, information technology, and application software. There are many recognized colleges in India offering this course. MIT Arts, Commerce, and Science College (MIT ACSC) is one of them. Affiliated with the Savitribai Phule Pune University, it is one of the best MSC Computer Application Colleges in Pune. It offers a two-year full-time MCA program divided into four semesters. Combining theory with practice, the MIT ACSC MCA course induces the skills of various computing environments into the student viz programming, web designing, system analysis, database, etc. It assists them in understanding the effects of technological developments on society, creating innovative and sustainable solutions, contributing to our continuous technological advancement, and being the leader of change.

## ----- M.Sc. Computer Application Program Objectives -----

- To develop skills to synthesize research-based knowledge in the design and analysis of data for providing solutions to complex problems.
- To equip students with mathematical and statistical skills relevant to commerce, enabling them to solve complex problems and analyze data for decision-making.
- To develop students effective communication skills for diverse business contexts, with an emphasis on clarity, professionalism, conflict resolution, and cultural sensitivity.
- To apply the knowledge of Computer fundamentals, to the solution of complex problems.
- To cultivate students' understanding of environmental issues and their implications for business decisions and sustainability.
- To instill ethical conduct and professionalism in students, emphasizing accuracy, integrity, confidentiality, and ethical communication in accounting and business practices.

## ----- Programme Specific Outcome -----

- Develop the ability to design, implement, and manage databases, ensuring data integrity, security, and optimal Performance.
- Develop expertise and sustainable learning that adopts multidisciplinary creativity, innovation and research to address global interests.
- Apply the concepts of Advance Networking, Machine Learning, Data Science, Deep learning in software. Development.





## Eligibility

A Bachelor Degree in Science/Technology/Engineering with minimum 50% marks or equivalent for students belonging to Unreserved Category and minimum 45% or equivalent for students belonging to the Reserved Category. OR Bachelor of Engineering(BE) in Computer Science/Information Technology/Electronics and Telecommunication/AI and Data Science/AI and Machine Learning/ equivalent OR B.Voc. In Software Development/ Information Technology (k) B.Sc. with Computer Science as Principal Subject (l) General B.Sc. with Computer Science as one of the subjects at the TY BSc level Programme.

### ----- How to Apply ? -----

An eligible candidate has to apply directly to the college through the college admission application form. Visit the college website <https://apply.mitacsc.ac.in> to apply online.



----- Program Structure -----

M.Sc. (Computer Application)   SEMESTER I											
Subject Code	Course Type	Course Name	Teaching Scheme Hrs/Week			Examination Scheme and Marks			Credits		
			TH	P	CCE	EE	Total	TH	P	Total	
2413MJCT101	Major Core	Database Systems and SQL	4	-	40	60	100	4	-	4	
2413MJCT102		Foundation of Data Science using Python	4	-	40	60	100	4	-	4	
2413MJCT103		Operating Systems	2	-	20	30	50	2	-	2	
2413MJCP104		Lab course Based on Database Management System & SQL and Operating System	-	4	20	30	50	-	2	2	
2413MJCP105		Lab course based on Foundation of Data Science using Python	-	4	20	30	50	-	2	2	
2413MJET106A	Major Elective	Java Programming	2	-	20	30	50	2	-	2	
2413MJEPE107A		Lab Course based on Java Programming	-	4	20	30	50	-	2	2	
OR		OR									
2413MJET106B		Cloud Computing	2	-	20	30	50	2	-	2	
2413MJEPE107B		Lab Course based on Cloud Computing	-	4	20	30	50	-	2	2	
2413REMT108	Research Methodology	Research Methodology	4	-	40	60	100	4	-	4	
	Bridge Course	Introduction to C and C++	3	-	-	-	-	-		-	
<b>Total</b>			<b>19</b>	<b>12</b>	<b>220</b>	<b>330</b>	<b>550</b>	<b>16</b>	<b>6</b>	<b>22</b>	

M.Sc. (Computer Application) | SEMESTER II

Subject Code	Course Type	Course Name	Teaching Scheme Hrs/Week			Examination Scheme and Marks			Credits		
			TH	P	CCE	EE	Total	TH	P	Total	
2413MJCT201	Major Core	Web Technologies	4	-	40	60	100	4	-	4	
2413MJCT202		Introduction to Artificial Intelligence & Machine Learning	4	-	40	60	100	4	-	4	
2413MJCT203		Computer Network	2	-	20	30	50	2	-	2	
2413MJCP204		Lab course based on web technologies	-	4	20	30	50	-	2	2	
2413MJCP205		Lab course based on Introduction to Artificial Intelligence & Machine Learning	-	4	20	30	50	-	2	2	
2413MJET206A	Major Elective	Advance Java Programming	2	-	20	30	50	2	-	2	
2413MJEPE207A		Lab Course on based on adv Java	-	4	20	30	50	-	2	2	
OR		OR									
2413MJET206B		Mongo DB	2	-	20	30	50	2	-	2	
2413MJEPE207B		Lab Course on Mango DB	-	4	20	30	50	-	2	2	
2413OJT201	OJT	On Job Training/Winter Internship (120 Hours)	4	2	40	60	100	-	4	4	
<b>Total</b>			<b>12</b>	<b>14</b>	<b>220</b>	<b>330</b>	<b>550</b>	<b>12</b>	<b>10</b>	<b>24</b>	

----- Program Structure -----

M.Sc. (Computer Application)   SEMESTER III											
Subject Code	Course Type	Course Name	Teaching Scheme Hrs/Week			Examination Scheme and Marks			Credits		
			TH	P	CCE	EE	Total	TH	P	Total	
2414MJCT301	Major Core	Deep Learning	4	-	40	60	100	4	-	4	
2414MJCT302		Web Services	4	-	40	60	100	4	-	2	
2414MJCT303		Object Oriented Software Engineering	2	-	20	30	50	2	-	2	
2414MJCP301		Lab Course based on Deep Learning	-	4	20	30	50	-	2	2	
2414MJCP302		Lab Course based on CA Web services	-	4	20	30	50	-	2	2	
2414MJET301	Major Elective	Mobile Application Development	2	-	20	30	50	2	-	2	
2414MJEPE301		Lab Course based on Mobile Application Development	-	4	20	30	50	-	2	2	
OR		OR									
2414MJET302		Software Testing	2	-	20	30	50	2	-	2	
2414MJEPE302		Lab Course based on Software Testing	-	4	20	30	50	-	2	2	
2414RP301	Research	Research Work	4	-	40	60	100	-	2	4	
Total			16	14	220	330	550	12	10	22	

M.Sc. (Computer Application)   SEMESTER IV											
Subject Code	Course Type	Course Name	Teaching Scheme Hrs/Week			Examination Scheme and Marks			Credits		
			TH	P	CCE	EE	Total	TH	P	Total	
2414MJC401	Major Core	Industrial Training	12	2	120	180	300	-	12	12	
2414MJE401	Major Elective	Foundation of Blockchain technology	2	-	20	30	50	2	-	2	
		OR									
2414MJE402		Introduction to DataMining	2		20	30	50	2		2	
2414MJC402	Major Core	Any one MOOC Course	-	-	20	30	50	2		2	
2414RP401	Research	Research Work	4		40	60	100		6	6	
Total			12	14	200	300	500	4	18	22	

# Departmental Activities

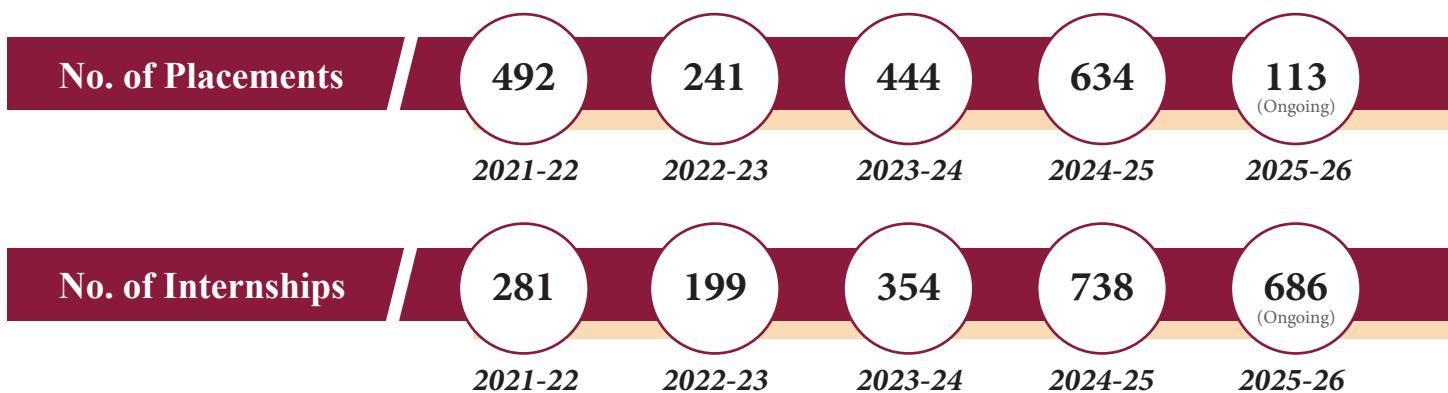
- Scifari-Flagship Event
- Vocational skill development sessions
- Expert Guidance Sessions
- Study Visits
- Add on courses
- Student centric evaluation system
- Student mentoring
- Workshops, Seminars, Guest interviews, Special shoot
- Awareness of Human Rights
- Professional Consultation Programs
- Connect with Parents
- Celebration of Special days
- College Level News Bulletin
- Club activities and competitions
- Research publication by students along with teacher



# Training & Placement



- ✓ 100 % Assistance for Placements & Internships
- ✓ Campus Recruitment Training - Soft Skills & Aptitude
- ✓ Corporate Outreach Activities
- ✓ Industry Expert Talks
- ✓ Dedicated Software Implementation for Internships & Placements



# MIT ACSC CAMPUS



Class Room



Digital Library



Indoor Sports



Library



Library



Class Room



Computer Lab



Canteen



Cultural Room



Class Room



Electronic Lab



AV Studio



Canteen



Outdoor Sports



Garden Area

*A centre of enlightenment, freedom of thought, and academic excellence.*



**MIT Arts, Commerce  
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Connect with Us !

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& Science College

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