

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. (Information Technology)

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. (Artificial Intelligence & Machine Learning)
- ❖ B.Sc. (Data Science)
- ❖ B.Sc. (Animation)
- ❖ B.Sc. (Computer Science)
- ❖ B.Sc. (Cyber & Digital Science)
- ❖ B.Sc. (Information Technology)
- ❖ B.Sc. (Industrial Mathematics with Computer Application)

Postgraduate Programs

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

Ph.D.

- ❖ Ph.D. - Mathematics



M.Sc.

(Information Technology)

About the Course

This program is designed to give deep and comprehensive knowledge in the field of Information Technology. The goal of this program is to promote students in understanding theoretical knowledge, practical skill, research work, recent developments, and cutting-edge technologies to make a global impact through their careers in IT. It aims to make students globally competent and future ready. M.Sc. (IT) is a Two Years Full Time Degree program divided into four semesters. The program will be as per National Education Policy comprising 88 credit points.

The programme covers the key aspects of Information technology academic excellence with research-oriented learning, that seeks to foster a community of skilled I.T. Professionals capable of addressing complex challenges across various industries.

Program Objective

- To teach a thorough understanding of the most recent technologies employed in Science, Technology, and Management in relation to Information Systems, as well as their applications in related industries.
- To create a pool of technically qualified employees who can quickly become productive in the sector.
- To meet the needs of industry and scientific organizations in the global era through IT and related fields.
- To develop distinguished professionals and leaders who value entrepreneurship, ethics, and social responsibility.

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

- a) Bachelor of Computer Science (B.C.S.) OR
- b) B.Sc.(Computer Science) OR
- c) B.C.A.(Science) OR
- d) B.Sc.(Information Technology) OR
- e) B.Sc.(Data Science) OR
- f) B.Sc.(Cyber and Digital Science) OR
- g) B.Sc. (Cyber Security) OR
- h) 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
- j) B.Voc. in Software Development/ Information Technology OR
- k) B.Sc. with Computer Science as Principal Subject OR
- l) General B.Sc. with Computer Science as one of the subjects 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. (Information Technology)

M.Sc. (IT) : SEM 1

Course Code	Course Type	Course Name	Teaching Scheme Hrs/Week		Examination Scheme and Marks			Credits	
			TH	PR	CE	EE	Total	TH	PR
P24/IT1MCT1	Major Core	Web Techniques	5		40	60	100	4	
P24/IT1MCT2		Advanced Database Concepts	5		40	60	100	4	
P24/IT1MCT3		Cloud computing	3		20	30	50	2	
P24/IT1MCP1		Lab course on Web Techniques		4	20	30	50		2
P24/IT1MCP2		Lab course on Advanced Database Concepts		4	20	30	50		2
P24/IT1MET1A	Major Elective	Introduction of Data Science in Python	3		20	30	50	2	
P24/IT1MEP1A		Lab course on Introduction of Data Science in Python		4	20	30	50		2
		OR							
P24/IT1MET1B		C# .Net Programming	3		20	30	50	2	
P24/IT1MEP1B		Lab course on C# .Net Programming		4	20	30	50		2
P24/IT1RMT1	Major Core	Research Methodology	5		40	60	100	4	
Total			21	12	220	330	550	16	6

M.Sc. (IT) : SEM 2

Course Code	Course Type	Course Name	Teaching Scheme Hrs/Week		Examination Scheme and Marks			Credits	
			TH	PR	CE	EE	Total	TH	PR
P24/IT2MCT1	Major Core	Web Framework-I	5		40	60	100	4	
P24/IT2MCT2		Data analytics and visualization	5		40	60	100	4	
P24/IT2MCT3		Advance Networking	3		20	30	50	2	
P24/IT2MCP1		Lab course on Web Framework-I		4	20	30	50		2
P24/IT2MCP2		Lab course on Data analytics and visualization		4	20	30	50		2
P24/IT2MET1A	Major Elective	Big Data	3		20	30	50	2	
P24/IT2MEP1A		Lab course on Big Data		4	20	30	50		2
		OR							
P24/IT2MET1B		Django Framework	3		20	30	50	2	
P24/IT2MEP1B		Lab course on Django Framework		4	20	30	50		2
P24/IT2OJTP1	OJT	On Job Training		2	40	60	100		4
Total			19	14	220	330	550	12	10

Program Structure

M.Sc. (Information Technology)

M.Sc. (IT) : SEM 3

Course Code	Course Type	Course Name	Teaching Scheme Hrs/Week		Examination Scheme and Marks			Credits		
			TH	PR	CE	EE	Total	TH	PR	
P24/IT3MCT1	Major Core	Web Framework-II	5		40	60	100	4		
P24/IT3MCT2		Machine Learning	5		40	60	100	4		
P24/IT3MCT3		Information Assurance and Security	3		20	30	50	2		
P24/IT3MCP1		Lab course on Web Framework-II		4	20	30	50		2	
P24/IT3MCP2		Lab course on Machine Learning		4	20	30	50		2	
P24/IT3MET1A	Major Elective	Mobile Technology	3		20	30	50	2		
P24/IT3MEP1A		Lab Course on Mobile Technology		4	20	30	50		2	
		OR								
P24/IT3MET1B		Design and Analysis of Algorithm	3		20	30	50	2		
P24/IT3MEP1B		Lab Course on Design and Analysis of Algorithm		4	20	30	50		2	
P24/IT3RPP1	Research Project	Research Work		2	40	60	100		4	
Total			12	14	220	330	550	12	10	

M.Sc. (IT) : SEM 4

Course Code	Course Type	Course Name	Teaching Scheme Hrs/Week		Examination Scheme and Marks			Credits		
			TH	PR	CE	EE	Total	TH	PR	
P24/IT4MCP1	Major Core	Full Time Industrial Training (IT)	-	2	120	180	300	-	12	
P24/IT4MET1A	Major Elective	MOOC Courses (any two)	-	-	40	60	100	4		
		OR								
		Any Two from following through online mode each of 2 credits								
P24/IT4MET1B1		Virtual Reality	6	-	40	60	100	4		
P24/IT4MET1B2		Data Mining & Warehousing								
P24/IT4MET1B3	Soft Computing									
P24/IT4MET1B4	IT Infrastructure & Management									
P24/IT4RPP3	Research Project	Research Project	-	2	45	105	150		6	
Total			6	4	220	330	550	4	18	

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Class Room



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