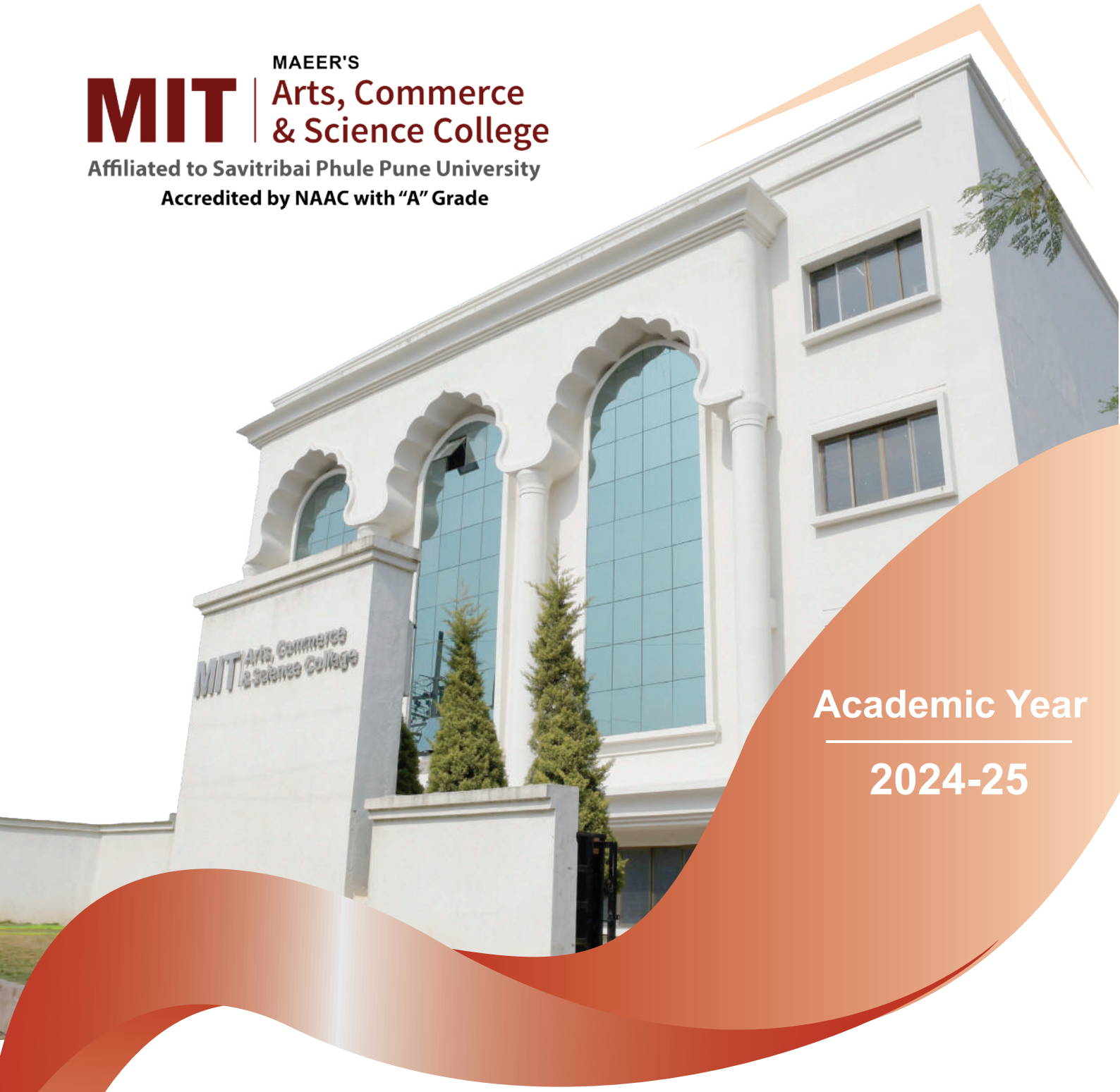
MAEER'S

MIT | Arts, Commerce & Science College

Affiliated to Savitribai Phule Pune University

Accredited by NAAC with "A" Grade



Academic Year

2024-25

M.Sc. (Cyber Security)

(As per National Education Policy- 2020)

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 Security)**

Ph.D.

- **Ph.D. - Mathematics**

M.Sc.

(Cyber Security)

About the Course

The Master of Science in Cyber Security (M.Sc.C.S.) program is designed to provide advanced education and training in the field of cyber security. This comprehensive program aims to equip students with a profound understanding of theoretical concepts, practical skills, and cutting- edge technologies relevant to the rapidly evolving world of computing. With a strong emphasis on academic excellence and research-driven learning, the M.Sc. Cyber Security program seeks to nurture a community of skilled cyber security professionals capable of addressing complex challenges across various industries. By fostering a stimulating and innovative learning environment, we strive to empower our students to become leaders, innovators, and agents of positive change in the field of computer science.

Program Objective

- Developing advanced knowledge and skills: M.Sc.Cyber Security programs aim to provide students with advanced knowledge and skills in areas such as computer networks, database management, programming, cybersecurity, cloud security, and more.
- Preparing for leadership roles: M.Sc. (C.S.) programs often prepare students for leadership roles in the IT industry by providing them with the knowledge, skills, and confidence to lead teams and make strategic decisions.
- Promoting innovation: M.Sc. (C.S.) programs encourage students to think creatively and innovatively by exposing them to cutting-edge technologies and research.
- Enhancing career prospects:M.Sc. (C.S.) programs are designed to enhance students' career prospects by providing them with specialized knowledge and skills that are in high demand in the IT industry.
- Encouraging lifelong learning: M.Sc. (C.S.) programs promote a culture of lifelong learning by providing students with the tools and resources they need to stay up-to-date with the latest advancements in the IT industry.

Why choose MIT ACSC?

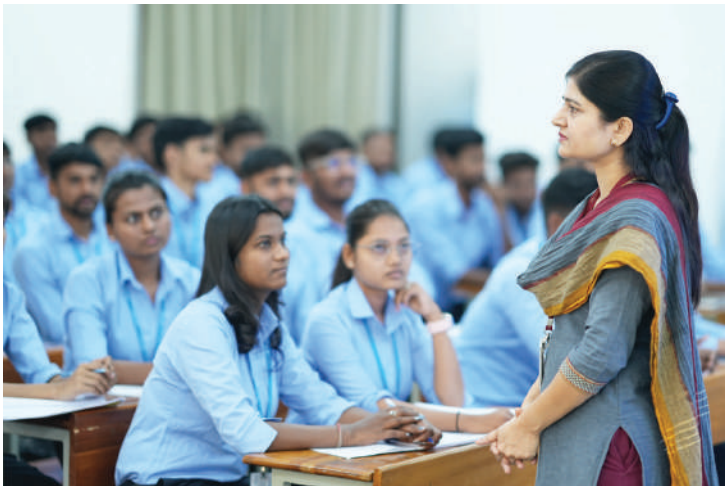
- Students are provided with opportunities to develop and hone core competency in the field of computer science and encourage them to make a mark in the much sought after IT industry.
- Learn Machine Learning, Soft Computing, Cloud Computing, Big Data Analytics, Mobile Technologies, and Web Framework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

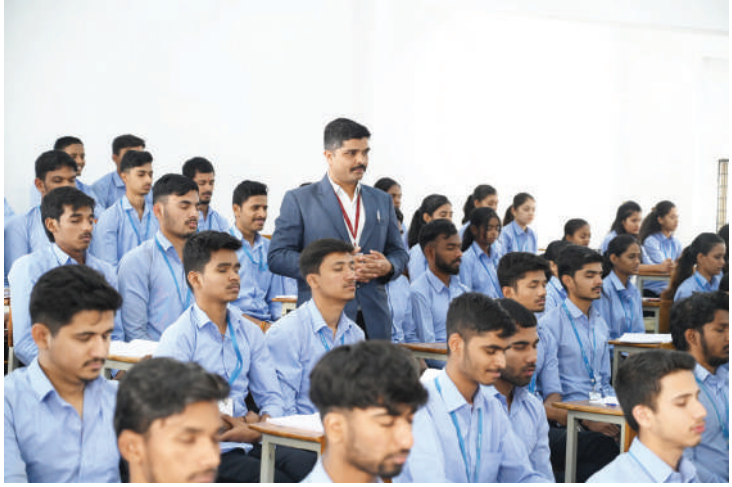
Eligibility

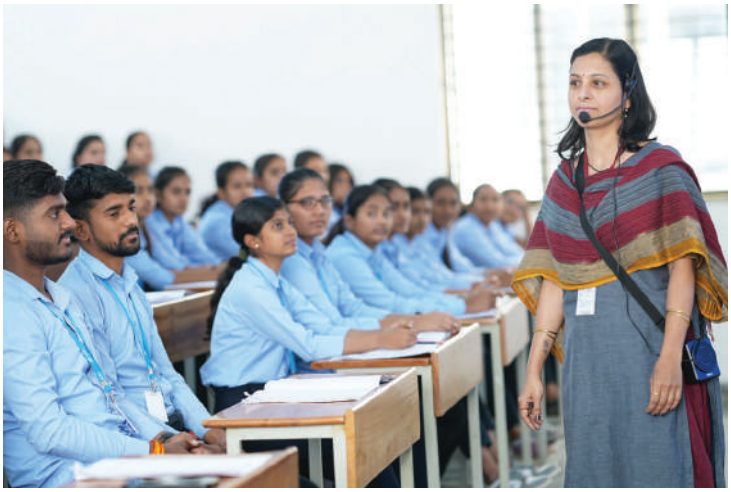
a) B.Sc. (Cyber and Digital Science) OR
b) B.Sc. (Cyber Security) OR
c) Bachelor of Computer Science (B.C.S.) OR
d) B.Sc. (Computer Science) OR
e) B.C.A. (Science) OR
f) B.Sc. (Information Technology) OR
g) B.Sc. (Cloud Computing) OR
h) Bachelor of Engineering (BE) in Computer Science/Information Technology/Electronics and Telecommunication/AI and Data Science/AI and Machine Learning/ equivalent OR
i) B.Voc. in Software Development/ Information Technology OR
j) B.Sc. with Computer Science as Principal Subject OR
k) General B.Sc. with Computer Science as one of the subjects at TYBSc level OR
Graduate degree from a recognized university / institution with an equivalent qualification.

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. (Cyber Security)

M.Sc. (CDS): 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/CS1MCT1	Major Core	Mobile Applications & Services.	5		40	60	100	4		4
P24/CS1MCT2		Intrusion Detection & Prevention System	5		40	60	100	4		4
P24/CS1MCT3		Digital Image Processing	3		20	30	50	2		2
P24/CS1MCP1		Lab course on Mobile Applications & Services.		4	20	30	50		2	2
P24/CS1MCP2		Lab course on Intrusion Detection & Prevention System		4	20	30	50		2	2
P24/CS1META	Major Elective	Wireless Security	3		20	30	50	2		2
P24/CS1MEPA		Lab course on Wireless Security		4	20	30	50		2	2
		OR								
P24/CS1METB		Digital Payments & Security	3		20	30	50	2		2
P24/CS1MEPB		Lab course on Digital Payments & Security		4	20	30	50		2	2
P24/CS1MNT1	RM	Research Methodology	4	–	40	60	100	4		4
Total			20	12	220	330	550	16	6	22

M.Sc. (CDS) : 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/CS2MCT1	Major Core	Malware Analysis	5		40	60	100	4		4
P24/CS2MCT2		Incident Handling	5		40	60	100	4		4
P24/CS2MCT3		Cyber Security Architecture	3		20	30	50	2		2
P24/CS2MCP1		Lab on Malware Analysis		4	20	30	50		2	2
P24/CS2MCP2		Lab course on Incident Handling		4	20	30	50		2	2
P24/CS2META	Major Elective	Fundamentals of DevSecOps	3		20	30	50	2		2
P24/CS2MEPA		Lab course on Fundamentals of DevSecOps		4	20	30	50		2	2
		OR								
P24/CS2METB		Tools & Technology for Cyber Security	3		20	30	50	2		2
P24/CS2MEPB		Lab on Tools & Technology . for Cyber Security		4	20	30	50		2	2
P24/CSS2OJTP	OJT	On Job Training		2	40	60	100		4	4
Total			16	18	220	330	550	12	10	22

Program Structure

M.Sc. (Cyber Security)

M.Sc. (CDS): 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/CS3MCT1	Major Core	Penetration Testing	5		40	60	100	4		4
P24/CS3MCT2		Virtualization & Forensics	5		40	60	100	4		4
P24/CS3MCT3		Security Audit	3		20	30	50	2		2
P24/CS3MCP1		Lab on Penetration Testing		4	20	30	50		2	2
P24/CS3MCP2		Lab course on Virtualization & Forensics		4	20	30	50		2	2
P24/CS3META	Major Elective	Mobile Forensic	3		20	30	50	2		2
P24/CS3MEPB		Lab course on Mobile Forensic		4	20	30	50		2	2
		OR								
P24/CS3METB		Advanced DevSecOps	3		20	30	50	2		2
P24/CS3MEPB		Lab course on Advanced DevSecOps		4	20	30	50		2	2
P24/CS3PR	Research Project	Research Project		2	40	60	100		4	4
Total			16	14	220	330	550	12	10	22

M.Sc. (CDS) : SEM 4

Course Code	Course Type	Course Name	Teaching Scheme Hrs/Week		Examination Scheme and Marks			Credits		
			TH	PR	CE	EE	Total	TH	PR	Total
P24/CS4MCP1	Major Core	Full-time Industrial Training	5		120	180	300		12	12
P24/CS4MET1	Major Electives	Online Course / MOOC	5		40	60	100	4		
P24/CS4RP	Research Project	Research Project	3		60	90	150		6	6
Total				18	220	330	550	04	18	22

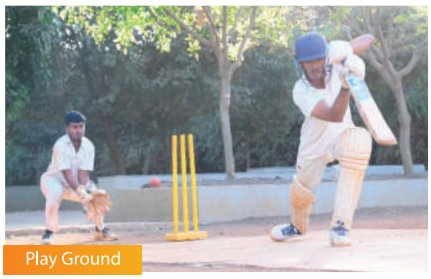
Our Eminent Recruiters

College Campus


Computer Lab


Class Room


Canteen


Play Ground


Computer Lab


Indoor Sports

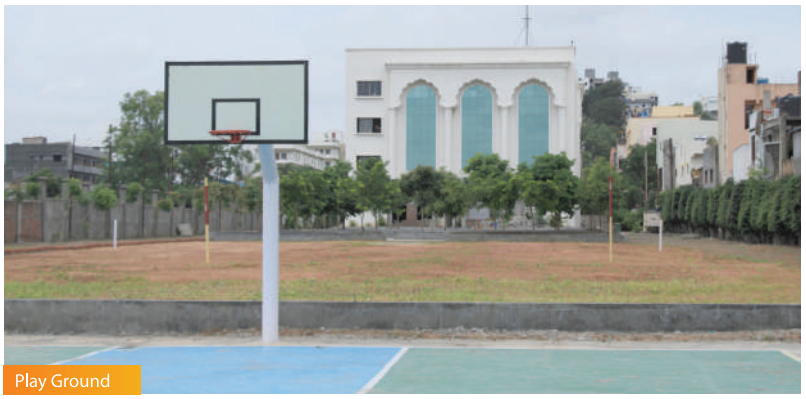

Class Room


Computer Lab


Library

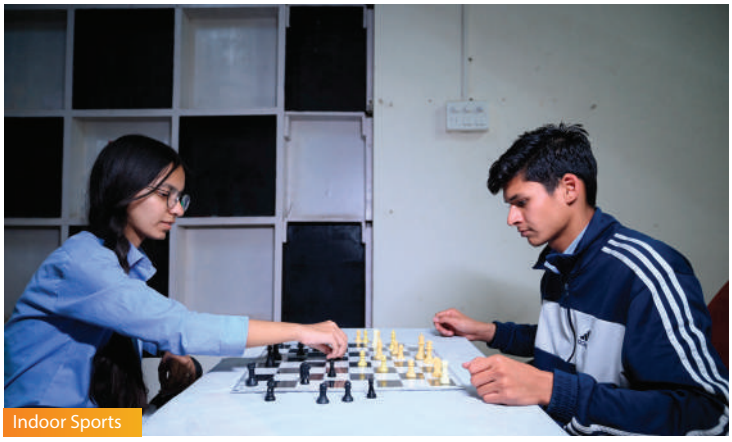

Garden


Class Room


Play Ground


Electronics Lab


Laboratory


Indoor Sports


Laboratory


Class Room

Connect Us:

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MIT | Arts, Commerce & Science College

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