



MIT | Arts, Commerce & Science College

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

M.Sc. Data Science

ACADEMIC YEAR 2026-27



Excellence in Education

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

----- Postgraduate Programs -----

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

----- Ph.D. -----

- ❖ Ph.D. - Mathematics

M.Sc. Data Science

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

In the modern age of technology, access to huge amounts of information and ways to interpret it is of greater importance than ever. Real-time processing of this huge data is also crucial in all walks of life. With the availability of modern technologies of data storage, cleansing, and computing technology, the study of data science has expanded beyond the boundaries of mathematics and statistics. Data science employs a variety of instruments, scientific procedures, methods, and algorithms to glean insights from both structured and unstructured data. This programme combines statistical, computer science, and data-driven business management methodologies to extract information from data and drive decision making. The programme contains not only classic data analysis abilities, but also incorporates other crucial skills to perform multimedia and big data analysis. Students are prepared to meet the challenges at the intersection between big data, business analytics, and other emerging fields.

----- Why to 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.

----- Job prospects after M.Sc (Data 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.





Eligibility

Graduate degree in Statistics / Mathematics / Computer Science / Computer Application/ Engineering / Technology or any other discipline with a minimum of two years of learning Mathematics or statistics from a recognized university / institution with an equivalent qualification.

----- 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. (Data Science) 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
P24/DS1MCT1	Major Core	Statistics for Data Science	5	-	40	60	100	4	-	4
P24/DS1MCT2		Linear Algebra	3	-	40	60	100	2	-	2
P24/DS1MCP1		Practical Course based on Linear Algebra	-	4	20	30	50	-	2	2
P24/DS1MCT3		Foundation of Data Science	3	-	20	30	50	2	-	2
P24/DS1MCP2		Practical Course based on Statistics for Data Science	-	4	20	30	50	-	2	2
P24/DS1MCP3	Major Elective (Choose A Or B)	Practical Course based on Foundation of Data Science	-	4	20	30	50	-	2	2
P24/DS1MET1		A. Artificial Intelligence OR B. Data Mining and Data Warehousing	3	-	20	30	50	2	-	2
P24/DS1RMT1		based on Artificial Intelligence OR B. Practical Course based on Data Mining and Data Warehousing	-	4	20	30	50	-	2	2
P24/CS1MNT1		Research Methodology	5	-	40	60	100	4	-	4
Total			19	16	220	330	550	14	8	22

M.Sc. (Data Science) 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
P24/DS2MCT1	Major Core	Database Technologies	4	-	40	60	100	4	-	4
P24/DS2MCT2		Machine Learning	4	-	40	60	100	4	-	4
P24/DS2MCT3		Cloud Computing	2	-	20	30	50	2	-	2
P24/DS2MCP1		Practical Course based on Database Technologies	-	2	20	30	50	-	2	2
P24/DS2MCP2		Practical Course based on Machine Learning	-	2	20	30	50	-	2	2
P24/DS2MET1	Major Elective (Choose A Or B)	A. Big Data OR B.Data Visualization tools	2	-	20	30	50	2	-	2
P24/DS2MEP1		A.Practical Course based on Big Data OR B.Practical Course based Data Visualization tools	-	2	20	30	50	-	2	2
P24/CS1MNT1	OJT	On Job Training in IT industry/ Summer Project (120 Hours)	-	4	40	60	100	-	4	4
Total			16	14	220	330	550	12	10	22

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

M.Sc. (Data Science) 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
P24/DS3MCT1	Major Core	Applied Statistics	4	-	40	60	100	4	-	4
P24/DS3MCT2		Deep Learning	4	-	40	60	100	4	-	4
P24/DS3MCT3		Natural Language Processing	2	-	20	30	50	2	-	2
P24/DS3MCP1		Practical Course based on Deep Learning	-	2	20	30	50	-	2	2
P24/DS3MCP2		Practical Course based on Natural Language Processing	-	2	20	30	50	-	2	2
P24/DS3MET1	Major Elective	A. Web Frameworks for Python OR B. Business Informatics	2	-	20	30	50	2	-	2
P24/DS3MEP1		A. Practical Course based on Web Frameworks for Python OR B. Practical Course based on Business Informatics	-	2	20	30	50	-	2	2
P24/DS3RPP1	Research-Project	Research Work	-	4	40	60	100	-	4	4
Total			16	14	220	330	550	12	10	22

M.Sc. (Data Science) 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
P24/DS4MCP1	Major Core	Full Time Industrial Training (IT)	2	-	120	180	300	-	12	12
P24/DS4MET1	Major Elective	MOOC Courses/ Online Courses	4	-	40	60	100	4	-	4
P24/DS4RPP2	ResearchProject	Research Project	-	4	60	90	150	-	6	6
Total			6	4	220	330	550	4	18	22

Departmental Activities

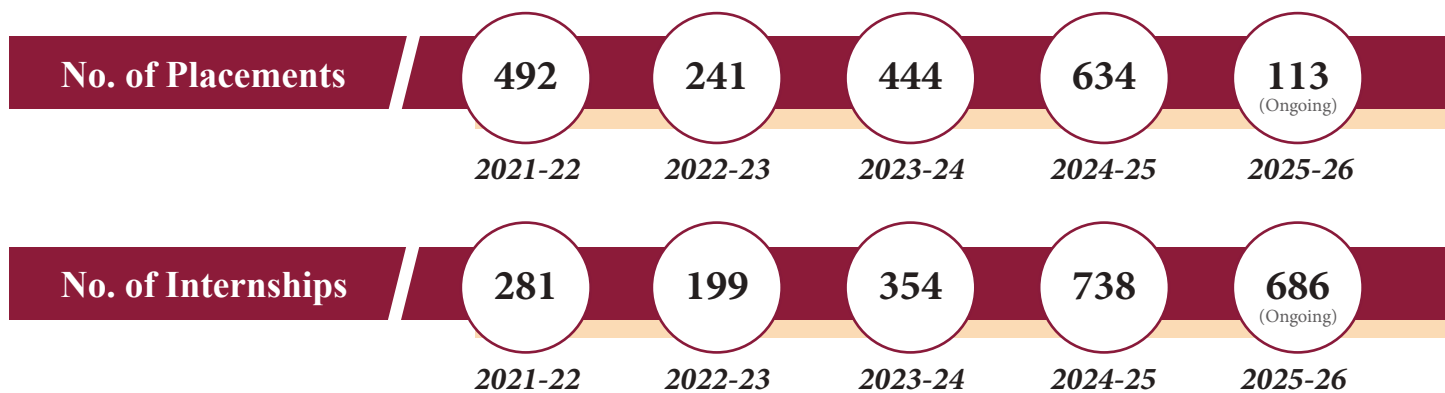
- Scifari-Flagship Event
- Vocational skill development sessions
- Expert Guidance Sessions
- Study Visits
- Add on courses
- Student centric evaluation system
- Student mentoring
- Workshops, Seminars, Guest interviews, Special shoot
- Awareness of Human Rights
- Professional Consultation Programs
- 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 & Science College



Connect with Us !

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