

MIT | MAEER'S
**Arts, Commerce
& Science College**
Affiliated to Savitribai Phule Pune University
Accredited by NAAC with "A" Grade

Academic Year
2024-25

B.Sc. (Artificial Intelligence & Machine Learning)

(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 & Digital Science)

Ph.D.

- ❖ Ph.D. - Mathematics



B.Sc.

Artificial Intelligence & Machine Learning

About the Course

B.Sc. (Artificial Intelligence & Machine Learning) program is designed to provide advanced education and training in the field of AI and ML. Driven by the combination of increased access to data, computational power, and improved algorithms, Artificial Intelligence (AI) technologies are entering the mainstream of technological innovation. These technologies include search, machine learning, and natural language processing, robotics and computer vision.

This course will also introduce the field of Machine Learning, in particular focusing on the core concepts of supervised, unsupervised learning and reinforcement learning. In supervised learning we will discuss algorithms which are trained on input data labeled with a desired output. Unsupervised learning aims to discover latent structure in input data where no output labels are available.

Programme Objective

- To build up an essential comprehension of Artificial Intelligence and Machine Learning.
- To help students become acquainted with basic principles of AI towards critical thinking, induction, recognition, information portrayal, and learning.
- To help students understand how to apply AI principles in intelligent agents, expert systems, artificial neural networks, and other machine learning models.
- To experiment with the Machine Learning model for simulation and analysis.
- To help students Investigate the present degree, potential, restrictions, and ramifications of Intelligent frameworks.



Eligibility

Passed Standard XII (10+2) / equivalent examination with Physics and Mathematics as compulsory subjects along with one of the Chemistry/ Biotechnology/ Biology/ Technical Vocational subject/ Computer Science/ Information Technology/ Informatics Practices/ Agriculture/ Engineering Graphics/ Business Studies from any recognized Board with a minimum of 50% marks or equivalent grade (45% marks or equivalent grade for Scheduled Caste/ Scheduled Tribes).

How to Apply?



An eligible candidate has to apply directly to the college through the college admission application form. Admission will be offered to the students on the basis of H.S.C. / 12th percentage.



Program Structure

B.Sc. (Artificial Intelligence & Machine Learning)

FY B.Sc. (AI & ML): SEM 1 | Level 4.5

Course Code	Course Type	Course Name	Teaching Scheme Hrs/Week			Examination Scheme and Marks			Credits			
			TH	TU	PR	CE	EE	Total	TH	TU	PR	Total
U24/AIML1ST1	Subject 1	Problem Solving and Programming Using C	03	--	--	20	30	50	02	--	--	02
U24/AIML1SP1		Lab course on C Programming	--	--	04	20	30	50	--	--	02	02
U24/AIML1ST2	Subject 2	Discrete Mathematics	03	--	--	20	30	50	02	--	--	02
U24/AIML1SP2		Lab Course on Discrete Mathematics	--	--	04	20	30	50	--	--	02	02
U24/AIML1ST3	Subject 3	Fundamentals of statistics	03	--	--	20	30	50	02	--	--	02
U24/AIML1SP3		Lab Course on Fundamentals of statistics	--	--	04	20	30	50	--	--	02	02
U24/AIML1OET1	GE/OE	From College Basket	03	--	--	20	30	50	02	--	--	02
U24/AIML1SECT1	Skill Enhancement Course (SEC)	Computer Organization	03	--	--	20	30	50	02	--	--	02
U24/AIML1IKST1	Indian Knowledge System (IKS)	Indian Science, Engineering & Technology (Past, Present & Future)	03	--	--	20	30	50	02	--	--	02
U24/AIML1AECT1	Ability Enhancement Course (AEC)	Language Communication-I	03	--	--	20	30	50	02	--	--	02
U24/AIML1VECT1	Value Education Course (VEC)	Environmental Awareness-I	03	--	--	20	30	50	02	--	--	02
Total			24	--	12	220	330	550	16	--	06	22

FY B.Sc. (AI & ML): SEM 2 | Level 4.5

Course	Course Type	Course Name	Teaching Scheme Hrs/Week			Examination Scheme and Marks			Credits			
			TH	TU	PR	CE	EE	Total	TH	TU	PR	Total
U24/AIML2ST1	Subject1	Advanced C Programming	03	--	--	20	30	50	2	--	--	02
U24/AIML2SP1		Lab course on Advanced C Programming	--	--	4	20	30	50	--	--	2	02
U24/AIML2ST2	Subject2	Fundamentals of Calculus	03	--	--	20	30	50	2	--	--	2
U24/AIML2SP2		Lab course on Fundamentals of Calculus	--	--	4	20	30	50	--	--	2	2
U24/AIML2ST3	Subject3	Probability Models	03	--	--	20	30	50	02	--	--	02
U24/AIML2SP3		Lab Course based on Probability Models	--	--	4	20	30	50	--	--	2	2
U24/AIML2OEP1	GE/OE	From College Basket	03	--	--	20	30	50	2	--	--	02
U24/AIML2SECP1	Skill Enhancement Course (SEC)	Lab Course on Computer Organization	--	--	4	20	30	50	--	--	2	02
U24/AIML2AECT1	Ability Enhancement Course (AEC)	Language Communication – II	03	--	--	20	30	50	2	--	--	02
U24/AIML2VECT1	Value Education Course (VEC)	EVS-II	03	--	--	20	30	50	2	--	--	02
U24/AIML2CCT1	Co-Curricular Courses (CC)	From College Basket	03	--	--	20	30	50	2	--	--	02
Total			21	--	16	220	330	550	14	--	8	22

Program Structure

B.Sc. (Artificial Intelligence & Machine Learning)

SY B.Sc. (AI & ML): SEM 3 | Level 5

Course Code	Course Type	Course Name	Teaching Scheme Hrs/Week			Examination Scheme and Marks			Credits			
			TH	TU	PR	CE	EE	Total	TH	TU	PR	Total
U24/AIML3MCT1	Major Core	Introduction to Artificial Intelligence	03	--	--	20	30	50	2	--	--	2
U24/AIML3 MCT2		Data Structures	03	--	--	20	30	50	2	--	--	2
U24/AIML3MCP1		Lab Course Data Structures	--	--	4	20	30	50	--	--	2	2
U24/AIML3VSCT1	VSC	Lab Course on Database management System	--	--	4	20	30	50	--	--	--	2
U24/AIML3FPP1	FP	Field Project	--	--	4	20	30	50	--	--	2	2
U24/AIML3MNT1A	Minor	Graph Theory	03	--	--	20	30	50	2	--	--	2
U24/AIML3MNP1A		Practical on Graph Theory	--	--	4	20	30	50	--	--	2	2
OR												
U24/AIML3MNT1B	Minor	Inferential Statistics -I	03	--	--	20	30	50	2	--	--	2
U24/AIML3MNP1B		Lab Course on Inferential Statistics -I	--	--	4	20	30	50	--	--	2	2
U24/AIML3OET1	GE/OE	From College Basket	03	--	--	20	30	50	2	--	--	2
U24/AIML3IKST1	IKS	Computing in Ancient India	03	--	--	20	30	50	2	--	--	02
U24/AIML3AECT1	AEC	Sanskrit – I/ Marathi-I/ Hindi-I	03	--	--	20	30	50	2	--	--	2
U24/AIML3CCT1	CC	From College Basket	03	--	--	20	30	50	2	--	--	2
Total			21	--	16	220	330	550	14	--	8	22

SY B.Sc. (AI & ML): SEM 4 | Level 5

Course Code	Course Type	Course Name	Teaching Scheme Hrs/Week			Examination Scheme and Marks			Credits			
			TH	TU	PR	CE	EE	Total	TH	TU	PR	Total
U24/AIML4MCT1	Major Core	Python Programming	03	--	--	20	30	50	2	--	--	2
U24/AIML4MCT2		Natural Language Processing	03	--	--	20	30	50	2	--	--	2
U24/AIML4MCP1		Lab course on Python Programming and NLP	--	--	4	20	30	50	--	--	2	2
U24/AIML4VSCT1	VSC	Lab Course on RDBMS	--	--	--	20	30	50	--	--	--	2
U24/AIML4CEPP1	CEP	Community Engagement Project	--	--	4	20	30	50	--	--	2	2
U24/AIML4MNT1A	Minor	Linear Algebra	03	--	--	20	30	50	2	--	--	2
U24/AIML4MNP1A		Linear Algebra	--	--	4	20	30	50	--	--	2	2
OR												
U24/AIML4MNT1B	Minor	Inferential Statistics -II	03	--	--	20	30	50	2	--	--	2
U24/AIML4MNP1B		Lab Course on Inferential Statistics -II	--	--	4	20	30	50	--	--	2	2
U24/AIML4OEP1	GE/OE	From College Basket	--	--	4	20	30	50	--	--	2	2
U24/AIML4AECT1	AEC	Sanskrit –II/ Marathi-II/	03	--	--	20	30	50	2	--	--	2
U24/AIML4SECP1	SEC	Hindi-II	03	--	--	20	30	50	2	--	--	2
U24/AIML4CCT1	CC	Computer Networks	03	--	--	20	30	50	2	--	--	2
Total			18	--	20	220	330	550	12	--	10	22

Program Structure

B.Sc. (Artificial Intelligence & Machine Learning)

TY B.Sc. (AI & ML): SEM 5 | Level 5.5

Course Code	Course Type	Course Name	Teaching Scheme Hrs/Week			Examination Scheme and Marks			Credits			
			TH	TU	PR	CE	EE	Total	TH	TU	PR	Total
U24/AIML5MCT1	Major Core	Neural Network	03	--	--	20	30	50	2	--	--	2
U24/AIML5MCT2		R- Programming	03	--	--	20	30	50	2	--	--	2
U24/AIML5MCT3		Embedded Systems	03	--	--	20	30	50	2	--	2	2
U24/AIML5MCT4		Data Visualization using Python	03	--	--	20	30	50	2	--	--	2
U24/AIML5MCP1		Lab Course on Neural Network	--	--	4	20	30	50	--	--	2	2
U24/AIML5MCP2		Lab course on R programming	--	--	4	20	30	50	--	--	--	2
U24/AIML5MET1A	Major Elective	Core Java Programming	03	--	--	20	30	50	2	--	2	2
U24/AIML5MEP1A		Lab course on Java Programming	--	--	4	20	30	50	--	--	2	2
OR												
U24/AIML5MET1B		Introduction to Front End Technologies	03	--	--	20	30	50	2	--	--	2
U24/AIML5MEP1B		Lab course on Front End Technologies	--	--	4	20	30	50	--	--	2	2
U24/AIML5VSCP1	VSC	Lab Course on Data Visualization	--	--	4	20	30	50	--	--	--	02
U24/AIML5FPP1	FP/CEP	Field Project (FP)	--	--	4	20	30	50	--	--	--	2
U24/AIML5MNT1	Minor	Logic (Theory)	03	--	--	20	30	50	2	--	--	2
		OR										
		Statistics in RM	03	--	--	20	30	50	2	--	--	2
Total			18	--	20	220	330	550	12	--	10	22

TY B.Sc. (AI & ML): SEM 6 | Level 5.5

Course Code	Course Type	Course Name	Teaching Scheme Hrs/Week			Examination Scheme and Marks			Credits			
			TH	TU	PR	CE	EE	Total	TH	TU	PR	Total
U24/AIML6MCT1	Major Core	Deep Learning Algorithms	03	--	--	20	30	50	2	--	--	2
U24/AIML6MCT2		Fuzzy Logic	03	--	--	20	30	50	2	--	--	2
U24/AIML6MCT3		Introduction to Robotics	03	--	--	20	30	50	2	--	--	2
U24/AIML6MCT4		Introduction to Data Science	03	--	--	20	30	50	2	--	--	2
U24/AIML6MCP1		Deep Learning Algorithms	--	--	4	20	30	50	--	--	2	2
U24/AIML6MCP2		Lab course on Embedded Systems and Robotics	--	--	4	20	30	50	--	--	2	2
U24/AIML6MET1A	Major Elective	Advance Java Programming	03	--	--	20	30	50	2	--		2
U24/AIML6MEP2A		Lab course on Advance Java Programming	--	--	4	20	30	50	--	--	2	2
OR												
U24/AIML6MET1B		Introduction to PHP	03	--	--	20	30	50	2	--	--	2
U24/AIML6MEP2B		Practical on PHP	--	--	4	20	30	50	--	--	2	2
U24/AIML6VSCP1	VSC	Lab Course on MongoDB	--	--	4	20	30	50	--	--	2	2
U24/AIML6OJTP1	OJT	On Job Training	--	--	2	40	60	100	--	--	4	4
Total			15	--	18	220	330	550	10	--	12	22

Program Structure

B.Sc. (Artificial Intelligence & Machine Learning)

TY B.Sc. (AI & ML): SEM 7 | Level 5.5

Course Code	Course Type	Course Name	Teaching Scheme Hrs/Week			Examination Scheme and Marks			Credits			
			TH	TU	PR	CE	EE	Total	TH	TU	PR	Total
U24/AIML7MCT1	Major Core	Data Analytics	03	--	--	20	30	50	2	-	-	4
U24/AIML7MCT2		Internet of Things	05	--	--	40	60	100	4	-	-	4
U24/AIML7MCT3		Data Mining	05	--	--	40	60	100	4	-	-	2
U24/AIML7MCP1		Lab Course on Data Mining	--	--	4	20	30	50	-	-	2	2
U24/AIML7MCP2		Lab course on Internet of Things	--	--	4	20	30	50	-	-	2	2
U24/AIML7MET1A	Major Elective	Spring Framework	03	--	--	20	30	50	2	--	--	2
U24/AIML7MEP1A		Lab Course on Spring Framework	--	--	4	20	30	50	--	--	--	2
		OR										
U24/AIML7MET1B		MERN Stack Development	03	--	--	20	30	50	2	--	--	2
U24/AIML7MEP1B		Lab Course on MEAN Stack Development	--	--	4	20	30	50	--	--	2	2
U24/AIML7RMT1	RM	Research Methodology	05	--	--	40	60	100	4	--	--	4
Total			21	--	12	220	330	550	16	--	6	22

TY B.Sc. (AI & ML): SEM 8 | Level 5.5

Course Code	Course Type	Course Name	Teaching Scheme Hrs/Week			Examination Scheme and Marks			Credits			
			TH	TU	PR	CE	EE	Total	TH	TU	PR	Total
U24/AIML8MCT1	Major Core	Big Data Analytics	03	--	--	20	30	50	2	--	--	2
U24/AIML8MCT2		Digital Image Processing	05	--	--	40	60	100	4	--	--	4
U24/AIML8MCT3		Quantum Computing	03	--	--	20	30	50	2	--	--	2
U24/AIML8MCT4		Augmented Reality	03	--	--	20	30	50	2	--	--	2
U24/AIML8MCP1		Lab course on Big Data Analytics	--	--	4	20	30	50	--	--	2	2
U24/AIML8MCP2		Lab course on Digital Image Processing	--	--	4	20	30	50	--	--	2	2
U24/AIML8MET1A	Major Elective	Hibernate Technologies	03	--	--	20	30	50	2	--	--	2
U24/AIML8MEP1A		Lab Course on Hibernate Technologies	--	--	4	20	30	50	--	--	2	2
		OR										
U24/AIML8MET1B		Advance Web Framework	03	--	--	20	30	50	2	--	--	2
U24/AIML8MEP1B		Lab Course on Advanced Web Framework	--	--	4	20	30	50	--	--	2	2
U24/AIML8OJTP1	OJT	On Job Training	--	--	2	40	60	100	--	--	4	4
Total			17	--	14	220	330	550	12	--	10	22

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MIT Arts, Commerce & Science
College, Alandi (D) - Pune

Tel: +91-8055350000

Email: admission@mitacsc.ac.in

www.mitacsc.ac.in