

Faculty of Engineering, School of Computer Science & Engineering
Department of Artificial Intelligence & Machine Learning

Degree: B. Tech. CSE (AIML)

Total Credit: 160

Third Semester						Fourth Semester					
Code	Subject Name	L	T	P	C	Code	Subject Name	L	T	P	C
MAS21XX ¹	Statistics & Probability	3	0	0	3	MEE22XX	Engineering Economics	3	0	0	3
MBB21XX	Management of Technology	3	0	0	3	AIM2201	Design and Analysis of Algorithms	3	1	0	4
AIM2101	Data Structures and Algorithms	3	1	0	4	AIM2202	Operating Systems	3	1	0	4
AIM2102	Relational Database Management System	3	1	0	4	AIM2220/AIM2221	Software Engineering & Project Management /Agile Software Development	3	1	0	4
AIM2103	Principles of Artificial Intelligence	3	1	0	4	AIM22XX	Program Elective 1	3	0	0	3
AIM2120/ AIM2121	Object Oriented Programming using Python/ Object Oriented Programming using Java	3	1	0	4	AIM0001	Open Elective 1	3	0	0	3
AIM2130	Data Structures and Algorithms Lab	0	0	2	1	AIM2230	Design and Analysis of Algorithms Lab	0	0	2	1
AIM2131	Relational Database Management System Lab	0	0	2	1	AIM2231	Operating Systems Lab	0	0	2	1
AIM2170	Project-based Learning 1	0	0	2	1	AIM2270	Project-based Learning 2	0	0	2	1
		18	4	6	25			18	3	6	24
	Total Contact Hours (L+T+P)	28					Total Contact Hours (L+T+P)	27			
Fifth Semester						Sixth Semester					
Code	Subject Name	L	T	P	C	Code	Subject Name	L	T	P	C
AIM3102	Machine Learning	3	1	0	4	AIM3201	Deep Learning	3	1	0	4
AIM3102	Automata Theory & Compiler Design	3	1	0	4	AIM32XX	Program Elective 4	3	0	0	3
AIM3120/ AIM3121	Computer Networks / Data Communication and Networking	3	1	0	4	AIM32XX	Program Elective 5	3	0	0	3
AIM31XX	Program Elective 2	3	0	0	3	AIM32XX	Program Elective 6	3	0	0	3
AIM31XX	Program Elective 3	3	0	0	3	AIM0003	Open Elective 3	3	0	0	3
AIM0002	Open Elective 2	3	0	0	3	AIM3202	Professional Practice	0	0	2	1
AIM3130	Machine Learning Lab	0	0	2	1	AIM3230	Deep Learning Lab	0	0	2	1
AIM3131	Computer Networks Lab/ Data Communication and Networking Lab	0	0	2	1	AIM3231	Emerging Tools and Technologies Lab	0	0	2	1
AIM3170	Project-based Learning 3	0	0	2	1	AIM3270	Project-based Learning 4	0	0	6	3
		18	3	6	24			15	1	12	22
	Total Contact Hours (L+T+P)	27					Total Contact Hours (L+T+P)	28			

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Seventh Semester						Eighth Semester					
Code	Subject Name	L	T	P	C	Code	Subject Name	L	T	P	C
AIM41XX	Program Elective 7	3	0	0	3	AIM4270	Major Project	-	-	-	12
AIM41XX	Program Elective 8	3	0	0	3						
AIM00XX	Open Elective 4	3	0	0	3						
AIM00XX	Open Elective 5	3	0	0	3						
AIM4170	Internship (Industry or Research)	0	0	2	1						
		12		2	13						12
	Total Contact Hours (L+T+P)	14					Total Contact Hours (L+T+P)				

Flexi Core		
Flexi Core 1 (III Sem)	Flexi Core 2 (IV Sem)	Flexi Core 3 (V Sem)
AIM2120: Object Oriented Programming using Python AIM2121: Object Oriented Programming using Java	AIM2220: Software Engineering & Project Management AIM2221: Agile Software Development	AIM3120: Computer Networks AIM3121: Data Communication and Networking.

Program Electives			
IV	V	VI	VII
Example - PE1 <ul style="list-style-type: none"> • AIM2240: Computer Organization and Architecture • AIM2241: Cloud Computing 	Example - PE2 <ul style="list-style-type: none"> • AIM3140: Web Technologies • AIM3141: NoSQL Databases • AIM3142: Linux System Administration and Shell Scripting Example - PE3 <ul style="list-style-type: none"> • AIM3143: Recommender Systems • AIM3144: High Performance Computing 	Example - PE 4 <ul style="list-style-type: none"> • AIM3240: Computer Vision • AIM3241: Natural Language Processing Example - PE5 <ul style="list-style-type: none"> • AIM3242: Sentiment Analysis and Opinion Mining • AIM3243: Artificial Intelligence in Cyber Security Example - PE6 <ul style="list-style-type: none"> • AIM3244: Explainable AI • AIM3245: Generative AI 	Example - PE 7 <ul style="list-style-type: none"> • AIM4140: Big Data Analytics • AIM4141: Human Computer Interaction Example - PE8 <ul style="list-style-type: none"> • AIM4142: MLOps • AIM4143: Reinforcement Learning

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Open Electives	
Graded OE	Non-Graded OE
OE1 AIM0001: Python Programming OE2 AIM0002: Data Structures OE3 AIM0003: Introduction to Machine Learning OE4 AIM0004: Data Visualization Techniques OE5 AIM0005: Introduction to Deep Learning	

ⁱ Statistics & Probability: CSE, AIML, SEEC students will take in 3rd semester. Engineering Economics: SIT, SCCE, All Core (-) SEEC will take in 3rd semester. In 4th semester, these courses are switched.