

Curriculum Structure for UG Artificial Intelligence and Machine Learning (effective from AY 2024 25 onwards)

Curriculum Structure for UG Artificial Intelligence and Machine Learning (effective from AY 2024 25 onwards)															
F.Y. B.Tech. AI-ML AY 2024 - 25 onwards															
Sr. No.	Sem	NEP Category	NEP Category	Code	Course Name	L	T	P	Hr	Cr	MSE/LA1	ISE/LA2	ESE	OE	POE
1	1	Basic Science Course	BSC	7MA101	Engineering Mathematics - I	3	1	0	4	4	30	20	50		
2	1	Basic Science Course	BSC	7CH103	Engineering Chemistry	3	0	0	3	3	30	20	50		
3	1	Engineering Science Course	ESC	7ME108	Engineering Graphics	1	0	2	3	2	30	20	50		
4	1	Engineering Science Course	ESC	7EE106	Electrical & Electronics Engineering	3	0	0	3	3	30	20	50		
5	1	Basic Science Course	BSC	7CH155	Engineering Chemistry Lab	0	0	2	2	1	30	30	40		
6	1	Engineering Science Course	ESC	7CS108	Computer Programming	2	0	2	4	3	30	30	40		
7	1	Engineering Science Course	ESC	7EE156	Electrical & Electronics Engineering Lab	0	0	2	2	1	30	30	40		
8	1	Professinal Core Course	PCC	7AI101	Computer Fundametals	3	0	0	3	3	30	20	50		
9	1	Professinal Core Course	PCC	7AI151	Computer Fundametals Lab	0	0	2	2	1	30	30	40		
10	1	Vocational Skill Enhancement Course	VSEC	7VS152	Engineering Skills - II	0	0	2	2	1	30	30	40		
Total						15	1	12	28	22					
S.Y. B.Tech. AI-ML AY 2025-26 onwards															
Sr. No.	Sem	NEP Category	NEP Category	Code	Course Name	L	T	P	Hr	Cr	MSE/LA1	ISE/LA2	ESE	OE	POE
1	2	Basic Science Course	BSC	7MA104	Engineering Mathematics - II	3	1	0	4	4	30	20	50		
2	2	Basic Science Course	BSC	7PH103	Engineering Physics	3	0	0	3	3	30	20	50		
3	2	Engineering Science Course	ESC	7AM102	Engineering Mechanics	2	0	0	2	2	30	20	50		
4	2	Engineering Science Course	ESC	7CM106	Civil & Mechanical Engineering	3	0	0	3	3	30	20	50		
5	2	Ability Enhancement Course	AEC	7HS101	Communication & Generic Skills	1	0	2	3	2	30	20	50		
6	2	Basic Science Course	BSC	7PH155	Engineering Physics Lab	0	0	2	2	1	30	30	40		
7	2	Vocational Skill Enhancement Course	ESC	7AM155	Engineering Mechanics Lab	0	0	2	2	1	30	30	40		
8	2	Engineering Science Course	ESC	7CM156	Civil & Mechanical Engineering Lab	0	0	2	2	1	30	30	40		
9	2	Professinal Core Course	PCC	7AI102	Fundamentals of AI	3	0	0	3	3	30	20	50		
10	2	Professinal Core Course	PCC	7AI152	Data visualization Lab	0	0	2	2	1	30	30	40		
11	2	Vocational Skill Enhancement Course	VSEC	7VS151	Engineering Skills - I	0	0	2	2	1	30	30	40		
Total						15	1	12	28	22					
Sr. No.	Sem	NEP Category	NEP Category	Code	Course Name	L	T	P	Hr	Cr	MSE/LA1	ISE/LA2	ESE	OE	POE
1	3	Professinal Core Course	PCC	7AI201	Artificial Intelligence-I	3	0	0	3	3	30	20	50		
2	3	Professinal Core Course	PCC	7AI202	Probability and Statistics	3	0	0	3	3	30	20	50		
3	3	Professinal Core Course	PCC	7AI203	Data Structures	3	0	0	3	3	30	20	50		
4	3	Professinal Core Course	PCC	7AI204	Discrete Mathematics	3	0	0	3	3	30	20	50		
5	3	Professinal Core Course	PCC	7AI251	Artificial Intelligence-I Lab	0	0	2	2	1	30	30	40		POE
6	3	Professinal Core Course	PCC	7AI252	Data Structures Lab	0	0	2	2	1	30	30	40		POE
7	3	Professinal Core Course	PCC	7AI253	Object Oriented Programming Lab	1	0	2	2	2	30	30	40		POE
9	3	Indian Knowledge System	IKS	Refer List	IKS Elective	2	0	0	2	2	30	20	50		
10	3	Ability Enhancement Course	AEC	7EE201	Understanding Incubation and Entrepreneurship (I)	3	0	0	3	3	30	20	50		
CE	3	Entrepreneurship/Economics/	CEP/FP	7CEAI201	Project Managment and Technical Writing	1	0	0	1	1	30	20	50		
Total						19	0	6	24	22					
Sem	NEP Category	NEP Category	Code	Course Name	L	T	P	Hr	Cr	MSE/LA1	ISE/LA2	ESE	OE	POE	
1	4	Professinal Core Course	PCC	7AI221	Artificial Intelligence-II	3	0	0	3	3	30	20	50		

Sr. No.	Sem	NEP Category	NEP Category	Code	Course Name	L	T	P	Hr	Cr	MSE/LA1	ISE/LA2	ESE	OE	POE
1	B	Professional Core Course	PCC	7AI421	Machine Learning-III	3	0	0	3	3	30	20	50		
2	B	Professional Core Course	PCC	7AI422	Generative AI	3	0	0	3	3	30	20	50		
3	B	Research Project	PROJECT	7AI491	Project	0	0	10	10	5	30	30	40	OE	
4	B	Professional Elective Course	PEC	Refer List	Program Elective - 4	3	0	0	3	3	30	20	50		
5	B	Professional Elective Course	PEC	Refer List	Program Elective - 5	3	0	0	3	3	30	20	50		
6	B	Co-curricular Course Activity	CCA	7CC471	Techno Socio Activities	0	0	2	2	1	30	30	40		
7	B	Multy Disp. Minor	MDM	Refer List	MDM					4	30	20	50		
		Total				12	0	12	24	22					
										174					