B.Tech. CSE Course Structure (2025-2029) AIML(XABIA)

Sr. No.	Semester	Corse Code	Course Title	L	T	P	Contact	Credits	Type
1	1	DEN001C	Communication Skills	1	0	0	1	1	AEC
2	1	DEN001D	Communication Skills Lab	0	0	2	2	1	AEC
3	1	DMA024A	Mathematics-I	3	1	0	4	4	Foundation
4	1	DPH001B	Applied Physics	3	0	0	3	3	Foundation
5	1	DCO013A	Computer Programming and Logical Thinking	3	0	0	3	3	Foundation
6	1	BCO353A	Foundation of Artificial Intelligence & Machine Learning	3	0	0	3	3	SEC
7	1	DPH002B	Applied Physics Lab	0	0	2	2	1	Foundation
8	1	DCO014A	Computer Programming and Logical Thinking Lab	0	0	2	2	1	Foundation
9	1	JIC001A	Entrepreneurship Development	0	0	2	2	1	SEC
10	1	BCO570A	Digital Data and AI Literacy	0	0	4	4	2	SEC
11	1	DCH010A	Environment Education	2	0	0	2	0	VAC
1	2	DEN002C	Professional Skills	1	0	0	1	1	AEC
2	2	DEN002D	Professional Skills Lab	0	0	2	2	1	AEC
3	2	DMA025A	Mathematics-II	3	1	0	4	4	Foundation
4	2	DCO001B	Computer Programming in C++	2	0	0	2	2	Foundation
5	2	BCO354A	Python Programming	3	0	0	3	3	SC
6	2	BCO427A	Python Programming Lab	0	0	2	2	1	SC
7	2	DCO018A	Advance Excel	0	0	4	4	2	SEC
8	2	DCO02B	Computer Programming in C++ Lab	0	0	4	4	2	Foundation
9	2		Inculcation of Human Values and Professional Ethics in Higher Education Institutions	2	0	0	2	2	VAC
10	2	DCO006A	Engineering workshop	0	0	2	2	1	Foundation
11	2	DLW001A	Indian Constitution	2	0	0	2	0	VAC

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Sr. No.	Semester	Corse Code	Course Title	L	T	P	Contact	Credits	Type
1	3	BCO 011B	Computer Networks	3	0	0	3	3	Core
2	3	BCO002B	Data Structures and Algorithms	3	1	0	4	4	Core
3	3	BAS 007B	Discrete Mathematics	3	0	0	3	3	Foundation
4	3	BCO001B	Software Engineering	3	0	0	3	3	Core
5	3	BCO008B	Operating Systems	3	0	0	3	3	Core
6	3	BCO005B	Data Structure and Algorithms Lab	0	0	2	2	1	Core
7	3	BCO355A	Supervised Learning in Machine Learning	3	0	0	3	3	SC
8	3	BCO014B	Operating Systems Lab	0	0	2	2	1	Core
9	3	BCO356A	Supervised Learning in Machine Learning lab	0	0	2	2	1	SC
10	3	BCO594A	Computer Networks Lab	0	0	2	2	1	Core
11	3	DBA112A	Leadership and Management Skills	2	0	0	2	2	AEC
12	3	BCO610A	Prompt Engineering for C and C++	0	0	4	4	2	SEC
13	3		Any of IKS Basic Courses	2	0	0	2	2	VAC
1	4		Open Elective-I	3	0	0	3	3	Multidisciplinary
2	4	BCO009B	Computer Organization and Design	3	0	0	3	3	Core
3	4	BCO010C	Database Management Systems	3	1	0	4	4	Core
4	4	BCO 357A	Unsupervised Learning & Neural Networks	3	0	0	3	3	SC
5	4	BCO611A/ BCO613AA	Google Cloud Computing Fundamental/Salesforce Administrator LAB	0	0	2	2	1	Department Elective
6	4	BCO 013B	Database Management Systems Lab	0	0	2	2	1	Core
7	4	BCO 358A	Unsupervised Learning & Neural Networks Lab	0	0	2	2	1	SC
8	4		Universal Human Value	2	0	0	2	2	AEC
9	4	BCO612A	Competitive Coding using AI (DSA)	0	0	4	4	2	SEC
10	4		Any of IKS Elective Course	2	0	0	2	2	VAC

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Sr. No.	Semester	Corse Code	Course Title	L	T	P	Contact	Credits	Type
1	5	BCO017B	Formal Languages & Automation Theory	3	1	0	4	4	Core
2	5	BCO023B	Design & Analysis of Algorithms	3	1	0	4	4	Core
3	5	BCO 359A	Advance Neural Network & Deep Learning	3	0	0	3	3	S
4	5	BCO ****	Department Elective 2	3	0	0	3	3	Department Elective
5	5	BCO 074B	Minor Project	0	0	8	8	4	Core
6	5		Open Elective II	3	0	0	3	3	Multidisciplinary
7	5	BCO 025B	Design & Analysis of Algorithms Lab	0	0	2	2	1	Core
8	5	BCO 360A	Advance Neural Network & Deep Learning LaB	0	0	2	2	1	SC
9	5	BCO571A	Prompt Engineering With Java and Python	0	0	4	4	2	SEC
1	6	BCO 028A	Compiler Construction	3	1	0	4	4	Core
2	6	BCO 361A	Natural Language Processing	3	0	0	3	3	S
3	6	BCO ****	Department Elective 3	3	0	0	3	3	Department Elective
4	6	BCO ****	Department Elective 4	3	0	0	3	3	Department Elective
5	6	BCO007C	Computer Graphics	3	0	0	3	3	Core
6	6	BCO ****	Department Elective 4 lab	0	0	2	2	1	Department Elective
7	6	BCO362A	Natural Language Processing Lab	0	0	2	2	1	S
8	6	BCO 015B	Computer Graphics Lab	0	0	2	2	1	Core
9	6		**Open Elective III**	3	0	0	3	3	Multidisciplinary
10	6	BCO642A	Machine Learning	1	0	0	1	1	Core
11	6	BCO643A	Machine Learning and Capston Project Using Prompt Engineering	0	0	6	6	3	Core

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Sr. No.	Semester	Corse Code	Course Title	L	T	P	Contact	Credits	Type
1	7	BCO ****	Department Elective 5	3	0	0	3	3	Department Elective
2	7	BCO ****	Department Elective 6	3	0	0	3	3	Department Elective
3	7	BCO ****	Department Elective 7	3	0	0	3	3	Department Elective
4	7	BCO ****	Department Elective 6 lab	0	0	2	2	1	Department Elective
5	7	BCO ****	Department Elective 7 Lab	0	0	2	2	1	Department Elective
6	7	BCO207A	Technical Writing	0	0	2	2	1	Core
1	8	BCO034C	Industry Internship	0	0	32	32	16	Core
						Total Credit		**169**	