

B.Tech (AI & ML)		
Choice Based Credit System		
SEM 1		
Code	Subject	Credits
Core Courses-Compulsory		
	Mathematics I	4
	Basic Electrical Engineering	4
	Software Foundation Course-C	3
Multidisciplinary Courses		
	Physics	4
Ability Enhancement Course- Compulsory		
	English	3
Skill Enhancement Course- Compulsory		
	Physics Lab	1
	Basic Electrical Engineering Lab	1
	Software Foundation Course-C Lab	1
Total		21
SEM 2		
Code	Subject	Credits
Core Courses-Compulsory		
3BSC104	Mathematics II	4
3ESC103	Python	3
3ESC103P	Python Lab	1
Multidisciplinary Courses		
3BSC103	Chemistry	4
Skill Enhancement Course- Compulsory		
3ESC105	Computer Assembly and Repair	1
3BSC103P	Computer Assembly and Repair Lab	1
3ESC105P	Chemistry Lab	1
Common Value Added Courses		
3MC101	Environmental Science	3
3VAC101	Character Building & Holistic Development of Personality-I (Spiritual & Mental Health)	2
Total		20
SEM 3		
Code	Subject	Credits
Core Courses-Compulsory		
	Mathematics III (Probability & Statistics)	2
	Biological Science for Engineers	3
	Analog Electronics Circuit	3
	Data Visualization	3
	Data Structure and Algorithms	3
	Computer Organization & Architecture	3
	Analog Electronics Circuit Lab	1
	Data Structure and Algorithms Lab	1
	Computer Organization & Architecture Lab	1
Ability Enhancement Course (AEC)		
	Effective Technical Communication	2
Common Value Added Courses		
	Community Engagement and Social Responsibility	2
Total		24
SEM 4		
Code	Subject	Credits
Core Courses-Compulsory		
	Digital Electronics	3
	Machine Learning	3
	Object Oriented Programming with JAVA	3
	Discrete Mathematics	4
	Design & Analysis of Algorithms	3
	Digital Electronics Lab	1
	Design & Analysis of Algorithms Lab	1
	Machine Learning Lab	1
	Object Oriented Programming with JAVA Lab	1
Skill Enhancement Course (SEC)		
	Entrepreneurship	3
Common Value Added Courses		
	Character Building & Holistic Development of Personality- II (Yoga and Physical Fitness)	2
Total		25
SEM 5		
Code	Subject	Credits
Core Courses-Compulsory		
	Database Management Systems	3
	Formal Language & Automata Theory	3
	IT Workshop (Sci Lab/MATLAB)	2
	Operating Systems	3
	Deep Learning	4
	Database Management Systems Lab	1

	IT Workshop Lab (Sci Lab/MATLAB)	1
	Operating Systems Lab	1
Common Value Added Courses		
	Character Building & Holistic Development of Personality- III (Universal Human Values and Ethics)	2
Internship		
	Internship	2
	Total	22
SEM 6		
Code	Subject	Credits
Core Courses-Compulsory		
	Compiler Design	3
	Computer Networks	3
	Fundamentals of Software Engineering	3
	Track Elective II	3
	Natural Language Processing	4
	Open Elective I / MOOCs I	3
	Compiler Design Lab	1
	Computer Networks Lab	1
	Fundamentals of Software Engineering Lab	1
Project		
	Project-I	3
	Total	25
SEM 7		
Code	Subject	Credits
Core Courses-Compulsory		
	Artificial Intelligence Analyst	4
	Track Elective V	4
	Track Elective VI	3
	Introduction to Cyber Security	3
Multidisciplinary Courses		
	Open Elective II / MOOCs II	3
Project		
	Project-II	4
	Total	21
SEM 8		
Code	Subject	Credits
Core Courses-Compulsory		
	Track Elective VII	4
	Open Elective-III / MOOCs III	3
Project		
	Project-III	8
	Total	15

Semester	Total Credit (Without Vocational Course)	Total Credit (With Vocational Course)
1	21	21
2	20	20
Year 1 (Certificate)	41	45
3	24	24
4	25	25
Year 2 (Diploma)	90	94
5	22	
6	25	
	137	NA
7	20	
8	15	
Year 4 (B.Tech Regular)	172	NA

Track Elective				
		CODE	Specialisation in ARTIFICIAL INTELLIGENCE	C
SEM V		3TECCS302	Advanced Software Engineering	4
		3TECCS307	Pattern Recognition	4
		3TECCS308	Intelligent systems	4
SEM VI		3TECCS311	Distributed Database Management System	4
		3TECCS313	Web Technology	4
		3TECCS319	Statistics for Artificial Intelligence	3
		3TECCS318	Data Mining	3
SEM VII		3TECCS320	Knowledge Representation	3
		3TECCS401	Internet -of-Things	3
		3TECCS402	Artificial Intelligence	4
		3TECCS410	Supervised Machine Learning	3
		3TECCS406	AI for games	4
	3TECCS421	Computer Vision	4	

SEM VIII	3TECCS422	UnSupervised Machine Learning	4
	3TECCS423	Introduction to Robotics	4

Open Electives		
Select any one in VI, VII, VIII semester		
Code	Course Title	Credits
3OEC101	Cryptography and Network Security	3
3OEC102	Cyber Law and Ethics	3
3OEC103	Indian Knowledge System	3

Open Elective can be opted by MOOCs

The students of B.Tech CSE can opt for any of the courses offered by the other Departments / Programs in the same semester