

Curriculum of B.Tech. In Computer Engineering, IITRAM, Ahmedabad (Provisional)

Semester	Courses (L-T-P-C)								Credits
1	Mathematics-I 3-2-0-5	Physics-I 2-1-0-3	HSS-1 Indian English Literature & Language/ Functional English & Comprehension 3-0-2-4	Introduction to Information and Communication Technology Infrastructure 2-0-0-2	Physics Lab 0-0-3-1.5	Chemistry 3-1-0-4	Engineering Graphics 2-0-3-3.5	Chemistry Lab 0-0-3-1.5	24.5
2	Mathematics-II (ODE + Linear Algebra + V Calculus) 4-2-0-6	Physics-II 3-2-0-5	Basic Electrical And Electronics Engineering 2-1-2-4	Computer Programming 2-1-3-4.5	Manufacturing Science & Workshop 2-0-3-3.5				23
3	HSS-2 Introduction to Sociology 3-0-0-3	Maths-III (Discrete Mathematics) 3-1-0-4	Data Structures 3-0-3-4.5	Object Oriented Programming Concepts 3-0-3-4.5	Digital Logic Design 3-0-3-4.5				20.5
4	Mathematics-IV (Probability & Statistics, random variables and processes) 3-1-0-4	Design and Analysis of Algorithms 3-1-0-4	Database Management System 3-0-3-4.5	Foundation of Data science 3-1-0-4	Computer Organization and Architecture 3-0-3-4.5	Theory of Computation 3-1-0-4			25.0
5	HSS-3 Introduction to Economics 3-0-0-3	Machine Learning 3-0-3-4.5	Computer Networking 3-0-3-4.5	Operating Systems 3-0-3-4.5	Software Engineering 3-0-2-4				20.5
6	HSS Elective 3-0-0-3	Compiler Design 3-0-3-4.5	Information Security 3-0-2-4	Distributed Systems 3-0-2-4	Discipline Elective 1 3-0-0-3	Discipline Elective 2 3-0-0-3	Seminar 0-0-0-2		23.5
7	B.Tech.Project 1 0-0-16-8	Discipline Elective 3 3-0-2-4/3-1-0-4	Discipline Elective 4 3-0-2-4/3-1-0-4	Discipline Elective 5 3-0-0-3	Open Elective 1 3-0-0-3				22
8	B.Tech.Project 2 0-0-32-16								16
								Total Credits	175