Semester 1	B.Tech. Credits = 31	Dual Degree Credits = 0	Total Credits = 31
Course Code	**Course Name**	**Category**	**Credits**
CS 101	Computer programming	Engineering Sciences and skills	6
CS 105	Discrete Structures	Basic Sciences and Mathematics	6
GC 101	Gender sensitization course	Non - Credited compulsory Courses	0
MS 101	Makerspace	Engineering Sciences and skills	8
MA 105	Calculus	Basic Sciences and Mathematics	8
NOCS 01	NCC/NSS/NSO	Non - Credited compulsory Courses	0
CH 117	Chemistry lab	Basic Sciences and Mathematics	3

Semester 2	B.Tech. Credits = 31	Dual Degree Credits = 0	Total Credits = 31
Course Code	**Course Name**	**Category**	**Credits**
BB 101	Biology	Basic Sciences and Mathematics	6
PH 117	Physics lab	Basic Sciences and Mathematics	3
CS 108	Software Systems Lab	Department Core	6
MA 110	Linear Algebra and Differential Equations	Basic Sciences and Mathematics	8
HSS/IDC/ENT	Introduction to HASMED	HASMED Core	8
NOCS 02	NCC/NSS/NSO	Non - Credited compulsory Courses	0

Semester 3	B.Tech. Credits = 36	Dual Degree Credits = 0	Total Credits = 36
Course Code	**Course Name**	**Category**	**Credits**
CS 228	Logic for Computer Science	Department Core	6
CS 213	Data Structures and Algorithms	Department Core	6
CS 293	Data Structures and Algorithms Lab	Department Lab and SLP/PT/Works Visit	3
CS 230	Digital Logic Design and Computer Architecture	Department Core	6
CS 231	Digital Logic and Computer Architecture Lab	Department Lab and SLP/PT/Works Visit	3
CS 215	Data Analysis and Interpretation	Engineering Sciences and skills	6
EC 101	Economics	HASMED Core	6

Semester 4	B.Tech. Credits = 36	Dual Degree Credits = 0	Total Credits = 36
Course Code	**Course Name**	**Category**	**Credits**
CS 219	Operating Systems	Department Core	6
CS 236	Operating Systems Lab	Department Lab and SLP/PT/Works Visit	3
CS 217	Artificial Intelligence and Machine Learning	Department Core	6
CS 240	Artificial Intelligence and Machine Learning Lab	Department Lab and SLP/PT/Works Visit	3
CS 218	Design and Analysis of Algorithms	Department Core	6
DE 250	Design Thinking	HASMED Core	6
		HS 250 and ES 250	6

Semester 5	B.Tech. Credits = 30	Dual Degree Credits = 6	Total Credits = 36
Course Code	**Course Name**	**Category**	**Credits**
CS348	Computer Networks	Department Core	6
CS 378	Computer Networks Lab	Department Lab and SLP/PT/Works Visit	3
CS 339	Abstractions and Paradigms for Programming	Department Core	6
CS 355	Programming Paradigms Laboratory	Department Lab and SLP/PT/Works Visit	3
CS 310	Automata Theory	Department Core	6
		HASMED Elective	6
		Honors	6

Semester 6	B.Tech. Credits = 30	Dual Degree Credits = 6	Total Credits = 36
Course Code	**Course Name**	**Category**	**Credits**
CS 320	Implementation of Programming Languages	Department Core	6
CS 306	Implementation of Programming Languages Laborat	Department Lab and SLP/PT/Works Visit	3
CS 317	Database and Information Systems	Department Core	6
CS 349	Database and Information Systems Lab	Department Lab and SLP/PT/Works Visit	3
		Department Electives	6
		HASMED Elective	6
		Honors	6

Semester 7	B.Tech. Credits = 36	Dual Degree Credits = 6	Total Credits = 42
Course Code	**Course Name**	**Category**	**Credits**
CS 492/ CS XXX		BTP/Equivalent Elective courses	6
		Flexible Elective	6
		Flexible Elective	6
		STEM Elective	6
		STEM Elective	6
		Department Electives	6
		Honors	6

Semester 8	B.Tech. Credits = 36	Dual Degree Credits = 6	Total Credits = 42
Course Code	**Course Name**	**Category**	**Credits**
CS 496/CS XXX		BTP/Equivalent Elective courses	12
		Flexible Elective	6
		Flexible Elective	6
		Flexible Elective	6
		Department Electives	6
		Honors	6

Semester 9	B.Tech. Credits = 0	Dual Degree Credits = 54	Total Credits = 54

Course Code	Course Name	Category	Credits
		PG Electives	6
		PG Electives	6
		Dual Degree Project	36
		PG Electives	6

Semester 10	B.Tech. Credits = 0	Dual Degree Credits = 42	Total Credits = 42
Course Code	**Course Name**	**Category**	**Credits**
		PG Electives	6
		Dual Degree Project	36