

First Semester					
Theory					
Sl. No	Category	Subject Code	Subject Name	L-T-P	Credit
1	BSC	22FY1BS01T/ 22FY1BS02T	Physics/ Chemistry	3-0-0	3
2	BSC	22FY1BS03T	Mathematics-I	3-0-0	3
3	ESC	22FY1ES01T/ 22FY1ES02T	Basic Electrical Engineering/ Basic Electronics Engineering	2-0-0	2
4	ESC	22FY1ES03T/ 22FY1ES04T	Basic Mechanical Engineering/ Basic Civil Engineering	2-0-0	2
5	HSMC	22FY1HS01T	Communicative English	2-0-0	2
6	MC	22FY1MC01T	Student Induction Program/UHV (21 Days)		0
Total Credit (Theory)					12
Practical					
1	BSC	22FY1BS01L/ 22FY1BS02L	Physics Laboratory/ Chemistry Laboratory	0-0-2	1
2	ESC	22FY1ES01L/ 22FY1ES02L	Basic Electrical Engineering Laboratory / Basic Electronics Engineering Laboratory	0-0-2	1
3	ESC	22FY1ES03L/ 22FY1ES04L	Basic Mechanical Engineering Laboratory/ Basic Civil Engineering Laboratory	0-0-2	1
4	ESC	22FY1ES05L/ 22FY1ES06L	Engineering Graphics/ Workshop Practice	0-0-2	1
5	HSMC	22FY1HS01L	Communicative English Laboratory	0-0-2	1
Total Credit (Practical)					5
Total Semester Credit					17

Second Semester					
Theory					
Sl. No.	Category	Subject Code	Subject Name	L-T-P	Credit
1	BSC	22FY2BS01T/ 22FY2BS02T	Physics/ Chemistry	3-0-0	3
2	BSC	22FY2BS03T	Mathematics-II	3-0-0	3
3	ESC	22FY2ES01T/ 22FY2ES02T	Basic Electrical Engineering/ Basic Electronics Engineering	2-0-0	2
4	ESC	22FY2ES03T/ 22FY2ES04T	Basic Mechanical Engineering/ Basic Civil Engineering	2-0-0	2
5	ESC	22FY2ES05T	Problem Solving using C	3-0-0	3
Total Credit (Theory)					13
Practical					
1	BSC	22FY2BS01L/ 22FY2BS02L	Physics Laboratory/ Chemistry Laboratory	0-0-2	1
2	ESC	22FY2ES01L/ 22FY2ES02L	Basic Electrical Engineering Laboratory / Basic Electronics Engineering Laboratory	0-0-2	1
3	ESC	22FY2ES03L/ 22FY2ES04L	Basic Mechanical Engineering Laboratory/ Basic Civil Engineering Laboratory	0-0-2	1
4	ESC	22FY2ES05L	C Programming Laboratory	0-0-2	1
5	ESC	22FY2ES06L/ 22FY2ES07L	Engineering Graphics / Workshop Practice	0-0-2	1
6	MC	22FY2MC01L	NCC/NSS/Yoga/Professional Ethics	0-0-2	0
Total Credit (Practical)					5
Total Semester Credit					18

Third Semester					
Theory					
Sl. No.	Category	Subject Code	Subject Name	L-T-P	Credit
1	BSC	22CM3BS01T	Mathematics-III	3-0-0	3
2	HSMC	22CM3HS01T/ 22CM3HS02T	Humanities-I Organizational Behavior/ Management-I Engineering Economics and Costing	3-0-0	3
4	ESC	22CM3ES01T	Data Structure using C	3-0-0	3
3	ESC	22CS3ES02T	Digital Logic Design	3-0-0	3
5	PCC-1	22CS3PC01T	PCC-1: Database Engineering	3-0-0	3
6	PCC-2	22CS3PC02T	PCC-2: Computer Network and Data Communication	3-0-0	3
7	MC	Mandatory Course:		3-0-0	0
		22CM3MC01T	Environmental Science and Engineering		
Total Credit (Theory)					18
Practical					
1	ESC	22CM3ES01L	Data Structure using C Laboratory	0-0-2	1
2	ESC	22CS3ES02L	Digital Logic Design Laboratory	0-0-2	1
3	PCC-1	22CS3PC01L	PCC Lab-1: Database Engineering Laboratory	0-0-2	1
4	PCC-2	22CS3PC02L	PCC Lab-2: Computer Network and Data Communication Laboratory	0-0-2	1
5	PSI	22CM3PS01L	Summer Internship / Summer Training / MOOC Certification	0-0-2	1
Total Credit (Practical)					5
Total Semester Credit					23

Fourth Semester					
Theory					
Sl. No.	Category	Subject Code	Subject Name	L-T-P	Credit
1	HSMC	22CM4HS01T/ 22CM4HS02T	Humanities-I Organizational Behavior/ Management-I Engineering Economics and Costing	3-0-0	3
2	BSC	22CM4BS01T	Discrete Structure	3-1-0	4
3	PCC-3	22CS4PC01T	PCC-3: Computer Organization and Architecture.	3-0-0	3
4	PCC-4	22CS4PC02T	PCC-4: Object Oriented Programming using JAVA	3-0-0	3
5	PCC-5	22CS4PC03T	PCC-5: Design and Analysis of Algorithms	3-0-0	3
6	PEC-1	Professional Elective Course-1:		3-0-0	3
		22CS4PE01T/ 22CS4PE02T/ 22CS4PE03T/ 22CS4PE04T/	Computer Graphics/ Data Science for Engineers / Cryptography and Network Security/ Digital Signal Processing		
7	HSMC	22CM4HS03T	Universal Human Values-II	3-0-0	3
Total Credit (Theory)					22
Practical					
2	PCC-3	22CS4PC01L	PCC Lab-3: Computer Organization and Architecture Laboratory	0-0-2	1
3	PCC-4	22CS4PC02L	PCC Lab-4: Object Oriented Programming using JAVA Laboratory	0-0-2	1
4	PCC-5	22CS4PC03L	PCC Lab-5: Design and Analysis of Algorithms Laboratory	0-0-2	1
Total Credit (Practical)					3
Total Semester Credit					25

CSE-Fifth Semester						
Theory						
Sl. No.	Category	Subject Code	Subject Name	L-T-P	Credit	
1	PCC-6	22CS5PC01T	PCC-6: Formal Language and Automata Theory	3-0-0	3	
2	PCC-7	22CS5PC02T	PCC-7: Operating System	3-0-0	3	
3	PCC-8	22CS5PC03T	PCC-8: Python Programming	3-0-0	3	
4	PEC-2	Professional Elective-2:			3-0-0	3
		22CS5PE01T/ 22CS5PE02T/ 22CS5PE03T/ 22CS5PE04T/ 22CS5PE05T	Knowledge Discovery and Data Mining/ Advance Computer Architecture/ Mobile computing/ Artificial Intelligence/ Introduction to Graph Theory			
		Open Elective-1:(For CSE Students)				
			Courses from Other Departments			
5	OEC-1	Open Elective-1: (For Other Branch Students)			3-0-0	3
			Courses from Other Departments			
		22CS5OE01T	Introduction to Python Programming			
6	OEC-2	Open Elective-2: (For CSE Students)			3-0-0	3
			Courses from Other Departments			
		Open Elective-1: (For Other Branch Students)				
		22CS5OE02T	Database Management System			
7	MC	Mandatory Course:			3-0-0	0
		22CM5MC01T / 22CM5MC02T	Constitution of India/ Essence of Indian Tradition Knowledge			
Total Credit (Theory)					18	
Practical						
1	PCC-6	22CS5PC01L	PCC Lab-6: Formal Language and Automata Theory Laboratory.	0-0-2	1	
2	PCC-7	22CS5PC02L	PCC Lab-7: Operating System Laboratory	0-0-2	1	
3	PCC-8	22CS5PC03L	PCC Lab-8: Python Programming Laboratory.	0-0-2	1	
4	PSI	22CM5PS01L	Summer Internship / Summer Training / MOOC Certification	0-0-2	1	
Total Credit (Practical)					4	
Total Semester Credit					22	

Sixth Semester					
Theory					
Sl. No.	Category	Subject Code	Subject Name	L-T-P	Credit
1	BSC	22CM6BS01T	Optimization Engineering	4-0-0	4
2	PCC-9	22CS6PC01T	PCC-9: Machine Learning	3-0-0	3
3	PCC-10	22CS6PC02T	PCC-10: Software Engineering	3-0-0	3
Professional Elective-3:					
4	PEC-3	22CS6PE01T/ 22CS6PE02T/ 22CS6PE03T/ 22CS6PE04T/	Computer Network Security / Internet of Things/ Computer Vision/ Cloud Computing	3-0-0	3
Professional Elective-4:					
5	PEC-4	22CS6PE05T/ 22CS6PE06T/ 22CS6PE07T/ 22CS6PE08T/ 22CS6PE09T	Natural Language Processing/ Big Data Analytics / Pattern Recognition/ Software Testing and Quality Assurance/ Fundamentals of 5G Communications	3-0-0	3
Open Elective-3:(For CSE Students)					
6	OEC-3		Courses from Other Departments	3-0-0	3
		Open Elective-3: (For Other Branch Students)			
		22CS6OE01T	Data Analytics		
Total Credit (Theory)					19
Practical					
1	PCC-9	22CS6PC01L	PCC Lab-09:Machine learning Lab	0-0-2	1
2	PCC-10	22CS6PC02L	PCC Lab-10:Software Engineering Lab	0-0-2	1
3	PSI	22CM6PS01L 22CM6PS02L	Technical writing using LATEX Simulation-based Laboratory using NS2/ NS3	0-0-4	2
4	HSMC	22CM6HS01L	Business Communication and Interview Skills	0-0-4	2
Total Semester Credit					25

Seventh Semester					
Theory					
Sl. No.	Category	Subject Code	Subject Name	L-T-P	Credit
1	PCC-11	22CS7PC01 T	PCC-11: Web Technologies	3-0-0	3
2	PCC-12	22CS7PC02 T	PCC-12: Compiler Design	3-0-0	3
Professional Elective-5:					
3	PEC-5	22CS7PE01T/ 22CS7PE02T/ 22CS7PE03T/ 22CS7PE04T	Computational Intelligence/ Interaction Design for Virtual and Augmented Reality/ Social Network Analysis/ Software Project Management	3-0-0	3
Professional Elective-6:					
4	PEC-6	22CS7PE05T/ 22CS7PE06T/ 22CS7PE07T/ 22CS7PE08T	Block Chain Technology/ Human-Computer Interaction/ Data Storage Technologies and Networks/ Algorithms for Bioinformatics	3-0-0	3
Open Elective-4:(For CSE Students)					
5	OEC-4		Courses from Other Departments	3-0-0	3
Open Elective-4: (For Other Branch Students)					
		22CS7OE01T	Introduction to ML		
Total Credit (Theory)					15
Practical					
1	PCC-11	22CS7PC01 L	PCC Lab-11: Web Technologies Lab	0-0-2	1
2	PCC-12	22CS7PC02 L	PCC Lab-12: Compiler Design Lab	0-0-2	1
3	PSI	22CM7PS01L	Minor Project	0-0-6	3
4	PSI	22CM7PS02L	Summer Internship / Summer Training / MOOC Certification	0-0-2	1
5	HSMC	22CM7HS01L	Entrepreneurship Project	0-0-4	2
Total Semester Credit					23

Eighth Semester						
Theory						
Sl. No.	Category	Subject Code	Subject Name	L-T-P	Credit	
1	OEC-5	Open Elective-5/ MOOC Certification				
			Courses from Other Departments	3-0-0	3	
		Open Elective-5: (For Other Branch Students)				
		22CS8OE01T/ 22CS8OE02T	Software Engineering Practices/ Project Management System	3-0-0	3	
2	OEC-6	Open Elective-6/MOOC Certification				
			Courses from Other Departments	3-0-0	3	
		Open Elective-6: (For Other Branch Students)				
		22CS8OE03T/ 22CS8OE04T	Web Technologies/ Computer Network Security	3-0-0	3	
Total Credit (Theory)					6	
1	PSI	22CM8PS01L	Major Project	0-0-12	6	
2	PSI	22CM8PS02L	Comprehensive Viva-Voce	0-0-4	2	
					8	
Total Semester Credit					14	

NOTE:

1. For all 12 PCC courses, laboratories are included.
2. Mandatory course are kept even as well as odd semester in an academic year with proper balance of load.
3. UHV-I course of 0 credit is included in 1st semester.
4. UHV-II course of 3 credit is included in 4th semester