

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	22IT3ES02T	Digital Logic Design	3-0-0	3
5	PCC-1	22IT3PC01T	PCC-1: Database Engineering	3-0-0	3
6	PCC-2	22IT3PC02T	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	22IT3ES02L	Digital Logic Design Laboratory	0-0-2	1
3	PCC-1	22IT3PC01L	PCC Lab-1: Database Engineering Laboratory	0-0-2	1
4	PCC-2	22IT3PC02L	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	4-0-0	4
3	PCC-3	22IT4PC01T	PCC-3: Computer Organization and Architecture	3-0-0	3
4	PCC-4	22IT4PC02T	PCC-4: Object-Oriented Programming using JAVA	3-0-0	3
5	PCC-5	22IT4PC03T	PCC-5: Design and Analysis of Algorithms	3-0-0	3
6	PEC-1	Professional Elective Course-1:		3-0-0	3
		22IT4PE01T/ 22IT4PE02T/ 22IT4PE03T/ 22IT4PE04T/	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	22IT4PC01L	PCC Lab-3: Computer Organization and Architecture Laboratory	0-0-2	1
3	PCC-4	22IT4PC02L	PCC Lab-4: Object-Oriented Programming using JAVA Laboratory	0-0-2	1
4	PCC-5	22IT4PC03L	PCC Lab-5: Design and Analysis of Algorithms Laboratory	0-0-2	1
Total Credit (Practical)					3
Total Semester Credit					25

IT - Fifth Semester					
Theory					
Sl. No.	Category	Subject Code	Subject Name	L-T-P	Credit
1	PCC-6	22IT5PC01T	PCC-6: Formal Language and Automata Theory	3-0-0	3
2	PCC-7	22IT5PC02T	PCC-7: Operating System	3-0-0	3
3	PCC-8	22IT5PC03T	PCC-8: Python Programming	3-0-0	3
4	PEC-2	Professional Elective-2:		3-0-0	3
		22IT5PE01T/ 22IT5PE02T/ 22IT5PE03T/ 22IT5PE04T/ 22IT5PE05T	Knowledge Discovery and Data Mining/ High-Performance Computing/ Mobile App Development/ Artificial Intelligence/ Introduction to Graph Theory		
		Open Elective-1:(For CSE Students)			
5	OEC-1		Courses from other departments	3-0-0	3
		Open Elective-1: (For Other Branch Students)			
		22IT5OE01T	JAVA 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)			
		22IT5OE02T	Computer Networks		
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	22IT5PC01L	PCC Lab-6: Formal Language Automata Theory Laboratory	0-0-2	1
2	PCC-7	22IT5PC02L	PCC Lab-7: Operating System Laboratory	0-0-2	1
3	PCC-8	22IT5PC03L	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	22IT6PC01T	PCC-9: Machine Learning	3-0-0	3
3	PCC-10	22IT6PC02T	PCC-10: Software Engineering	3-0-0	3
4	PEC-3	Professional Elective-3:			
		22IT6PE01T/ 22IT6PE02T/ 22IT6PE03T/ 22IT6PE04T/	Compiler Design / Internet of Things/ Computer Vision/ Cyber Security	3-0-0	3
5	PEC-4	Professional Elective-4:			
		22IT6PE05T/ 22IT6PE06T/ 22IT6PE07T/ 22IT6PE08T/ 22IT6PE09T/	Natural Language Processing/ Computational Intelligence / Pattern Recognition/ Wireless Sensor Network Fundamentals of 5G Communications	3-0-0	3
6	OEC-3	Open Elective-3:(For CSE Students)			
			Courses from other departments	3-0-0	3
		Open Elective-3:(For Other Branch Students)			
	22IT6OE01T	Introduction to Operating System			
Total Credit (Theory)					19
Practical					
1	PCC-9	22IT6PC01L	PCC Lab-09: Machine learning Laboratory	0-0-2	1
2	PCC-10	22IT6PC02L	PCC Lab-10: Software Engineering Laboratory	0-0-2	1
3	PSI	22CM6PS01L 22CM6PS02L	Technical writing using LATEX Simulation-based Laboratory using NS2/ NS3	0-0-3	2
4	HSMC	22CM6HS01L	Business Communication and Interview Skills	0-0-3	2
Total Semester Credit					25

Seventh Semester					
Theory					
Sl. No.	Category	Subject Code	Subject Name	L-T-P	Credit
1	PCC-11	22IT7PC01T	PCC-11: E-Commerce and ERP	3-0-0	3
2	PCC-12	22IT7PC02T	PCC-12: Web Technologies	3-0-0	3
3	PEC-5	Professional Elective-5:			
		22IT7PE01T/ 22IT7PE02T/ 22IT7PE03T/ 22IT7PE04T	Software Project Management/ Social Media Analysis/ Human-Computer Interaction/ Interaction Design for Virtual and Augmented Reality	3-0-0	3
4	PEC-6	Professional Elective-6:			
		22IT7PE05T/ 22IT7PE06T/ 22IT7PE07T/ 22IT7PE08T	Blockchain Technology/ Big Data Analytics / Algorithms for Bioinformatics/ Real-Time Operating System	3-0-0	3
5	OEC-4	Open Elective-4:(For CSE Students)		3-0-0	3
			Courses from other departments		
		Open Elective-4: (For Other Branch Students)			
		22IT7OE01T	Cloud Computing		
Total Credit (Theory)					15
Practical					
1	PCC-11	22IT7PC01L	PCC Lab-11: E- Commerce laboratory	0-0-2	1
2	PCC-12	22IT7PC02L	PCC Lab-12: Web Technologies laboratory	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)				
		22IT8OE01T/ 22IT8OE02T	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)				
		22IT8OE03T/ 22IT8OE04T	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	