

Course Code	Course Name	Course Type	k W	lour Der eek	S	Credits	Total Marks
			L	т	Р		
HSMCD101	Communication Skills	HS	3	0	0	3	100
BSCD101	Semiconductor Physics	BS	3	0	0	3	100
BSCD102	Calculus & Linear Algebra	BS	4	0	0	4	100
ESCD101	Basic Electrical and Electronics Engineering	ES	3	0	0	3	100
BSCD191	Semiconductor Physics Lab	BS	0	0	3	1.5	100
ESCD191	Basic Electrical and Electronics Engineering Lab	ES	0	0	3	1.5	100
ESCD192	Engineering Graphics & Design Lab	ES	0	0	3	1.5	100
Total	•		·	•	•	17.5	700
AUD-1	Yoga and Sports	AU*	1	0	0	0	50

SEMESTER-I

Total hours:23

SEMESTER-II

Course Code	Course Name	Course	Hours per week		Credits	Total Marks				
		Туре	L	Т	Ρ					
HSMCD201	Effective Communication Skills	HS	3	0	0	3	100			
BSCD201	Engineering Chemistry	BS	3	0	0	3	100			
BSCD202	Probability & Statistics	BS	3	0	0	3	100			
BSCD203	Biology for Engineers	BS	2	0	0	2	50			
ESCD201	Programming for Problem Solving	ES	3	0	0	3	100			
HSMCD291	Effective Communication Skills Lab	HS	0	0	3	1.5	100			
BSCD291	Engineering Chemistry Lab	BS	0	0	3	1.5	100			
ESCD291	Programming for Problem Solving Lab	ES	0	0	3	1.5	100			
ESCD292	Workshop/Manufacturing Practices	ES	0	0	3	1.5	100			
Total			_		-	20	850			
AUD-2	Environmental Science	AU*	1	0	0	0	50			
	Total hours:27									



Course Code	Course Name	Course Type	Hours per week			Credits	Total Marks
			L	т	Ρ		
BSCD301	Differential Equation and Complex Analysis	BS	4	0	0	4	100
ESCD301	Applied Digital Logic Design	ES	3	0	0	3	100
ESCD302	Data Structure & Algorithms	ES	3	0	0	3	100
ESCD303	Introduction to Python Programming	ES	3	0	0	3	100
PCC- CSD301	Computer Organization & Architecture	РС	3	0	0	3	100
ESCD391	Applied Digital Logic Design Lab	ES	0	0	3	1.5	100
ESCD392	Data Structure & Algorithms Lab	ES	0	0	3	1.5	100
ESCD393	Introduction to Python Programming Lab	ES	0	0	3	1.5	100
PCC- CSD391	Computer Organization & Architecture Lab	РС	0	0	3	1.5	100
Total						22	900
AUD-3	Constitution of India	AU*	1	0	0	0	50

SEMESTER-III

Total hours:29

SEMESTER-IV

Course Code	Course Name	Course	Hours per week			Credits	Total Marks
		туре	L	Т	Ρ		
HSMCD401	Design Thinking for Entrepreneurship and Startups	HS	3	0	0	3	100
PCC-CSD401	Operating Systems	PC	3	0	0	3	100
PCC-CSD402	Design and Analysis of Algorithms	PC	3	0	0	3	100
PCC-CSD403	Object-Oriented Programming	PC	3	0	0	3	100
PCC-CSD404	Formal Language & Automata Theory	PC	3	0	0	3	100
PCC-CSD405	Discrete Mathematics	PC	4	0	0	4	100
PCC-CSD491	Operating Systems Lab	PC	0	0	3	1.5	100
PCC-CSD492	Design and Analysis of Algorithms Lab	PC	0	0	3	1.5	100
PCC-CSD493	Object-Oriented Programming Lab	PC	0	0	3	1.5	100
Total						23.5	900



Course Code	Course Name	Course Type	He W	ours 'eek	per	Credits	Total Marks
			L	т	Ρ		
PCC-CSD501	Database Management Systems	PC	3	0	0	3	100
PCC-CSD502	Computer Networks	PC	3	0	0	3	100
PCC-CSD503	Data Analytics and Reporting	PC	3	0	0	3	100
PCC-CSD504	Compiler Design	PC	3	0	0	3	100
PEC-CSD501	Elective-I A. Digital Image Processing B. Artificial Intelligence C. Cloud Computing	PE	3	0	0	3	100
PCC-CSD591	Database Management Systems Lab	PC	0	0	3	1.5	100
PCC-CSD592	Computer Networks Lab	PC	0	0	3	1.5	100
PCC-CSD593	Data Analytics and Reporting Lab	PC	0	0	3	1.5	100
PEC-CSD591	Elective-I A. Digital Image Processing Lab B. Artificial Intelligence Lab C. Cloud Computing Lab	PE	0	0	3	1.5	100
Total	21	900					

SEMESTER-V



SEMESTER-VI

Course Code	Course Name	Course Week		per	Credits	Total Marks	
		<i>,</i> ,	L	Т	Ρ		
PCC-CSD601	Machine Learning and its Applications	PC	3	0	0	3	100
PCC-CSD602	Data Mining and Data Warehousing	PC	3	0	0	3	100
PEC-CSD601	Elective-II A. Big Data and Analytics B. Data Handling and Visualization C. Business Intelligence and Analytics	PE	3	0	0	3	100
PEC-CSD602	Elective-IIIA. Intelligent Database SystemB. Data Modeling and SimulationC. Information Extraction and Retrieval	PE	3	0	0	3	100
OEC-CSD601	 Open Elective-I A. Software Project Management B. Information Security Analysis and Audit C. Operational Research D. MOOC 	OE	3	0	0	3	100
PCC-CSD691	Machine Learning and its Applications Lab	PC	0	0	3	1.5	100
PCC-CSD692	Data Mining and Data Warehousing Lab	РС	0	0	3	1.5	100
PEC-CSD691	Elective-II A. Big Data and Analytics Lab B. Data Handling and Visualization Lab C. Business Intelligence And Analytics Lab	PE	0	0	3	1.5	100
PROJ-CSD681	Technical Seminar with Modern Tool Application	PROJ	-			2	100
Total						21.5	900



Course Code	Course Name	Course Type	Hou We	ırs p ek	er	Credits	Total Marks
		.,,,,	L	Т	Ρ		
PCC-CSD701	Software Engineering	PC	3	0	0	3	100
PEC-CSD701	Elective-IV A. Deep Learning B. Semantic Analysis C. Optimization for Data Science	PE	3	0	0	3	100
	Elective-V						
	A. Quantum Computing			0	0	3	100
PEC-CSD702	B. Introduction to Data Analytics	PE	3				
	and Visualization						
	C. Data and Internet Security						
	Open Elective-II	OE					
	A. Robotics and its Applications					3	100
OEC-CSD701	B. Digital Signal Processing		3	0	0		
	C. Information Security and Privacy						
	D. MOOC						
	Open Elective-III						100
	A. Soft Skills and Inter-personal						
	Communication	OF	2	0	0	3	
010-030702	B. Human Resource Development		5	0	0	5	
	and Organizational Behavior						
	C. Cyber Law and Ethics						
	D. MOOC						
PCC-CSD791	Software Tools and Techniques Lab	PC	0	0	2	1	50
PROJ-CSD782	Industrial Training	PROJ		-		2	100
PROJ-CSD783	Project-I	PROJ		-		4	100
Iotal						22	750

SEMESTER-VII



SEMESTER-VIII

Course Code	Course Name	Course Type	Hours per Week			Credits	Total Marks
			L	т	Ρ		
OEC-CSD801	Open Elective-IV A. Electronic Design Automation B. VLSI Design C. MOOC	OE	3	0	0	3	100
PROJ-CSD881	Grand Viva	PROJ	-			4	100
PROJ-CSD882	Project-II	PROJ	-			6	100
Total						13	300

Total hours:3 Total Credit:160.5 Total Marks:6200

- * Mandatory non-graded courses. Students will be assessed in activities/practical in a semester and to be declared as qualified/non-qualified.
- ** As per MOOC policy of the University.