

	Туре	Hours per Week			Credits	Total Marks
		L	т	Ρ		
Communication Skills	HS	3	0	0	3	100
Engineering Chemistry	BS	3	0	0	3	100
Calculus & Linear Algebra	BS	4	0	0	4	100
Programming for Problem solving	ES	3	0	0	3	100
Engineering Chemistry Lab	BS	0	0	3	1.5	100
Programming for Problem solving Lab	ES	0	0	3	1.5	100
Workshop/Manufacturing Practices	ES	0	0	3	1.5	100
					17.5	700
Yoga and Sports	AU*	1	0	0	0	50
	Engineering Chemistry Calculus & Linear Algebra Programming for Problem solving Engineering Chemistry Lab Programming for Problem solving Lab Workshop/Manufacturing Practices	Engineering ChemistryBSCalculus & Linear AlgebraBSProgramming for Problem solvingESEngineering Chemistry LabBSProgramming for Problem solving LabESWorkshop/Manufacturing PracticesES	Engineering ChemistryBS3Calculus & Linear AlgebraBS4Programming for Problem solvingES3Engineering Chemistry LabBS0Programming for Problem solving LabES0Workshop/Manufacturing PracticesES0	Engineering ChemistryBS30Calculus & Linear AlgebraBS40Programming for Problem solvingES30Engineering Chemistry LabBS00Programming for Problem solving LabES00Workshop/Manufacturing PracticesES00	Engineering ChemistryBS300Calculus & Linear AlgebraBS400Programming for Problem solvingES300Engineering Chemistry LabBS003Programming for Problem solving LabES003Workshop/Manufacturing PracticesES003	Engineering ChemistryBS3003Calculus & Linear AlgebraBS4004Programming for Problem solvingES3003Engineering Chemistry LabBS0031.5Programming for Problem solving LabES0031.5Workshop/Manufacturing PracticesES0031.517.5

SEMESTER-I

Total hours:23

Course Code	Course Name	Course	Hours per week			Credits	Total
		Туре	L	т	Р		Marks
HSMCG201	Effective Communication Skills	HS	3	0	0	3	100
BSCG201	Semiconductor Physics	BS	3	0	0	3	100
BSCG202	Differential Equation and Complex Analysis	BS	4	0	0	4	100
BSCG203	Biology for Engineers	BS	2	0	0	2	50
ESCG201	Basic Electrical and Electronics Engineering	ES	3	0	0	3	100
HSMCG291	Effective Communication Skills Lab	HS	0	0	3	1.5	100
BSCG291	Semiconductor Physics Lab	BS	0	0	3	1.5	100
ESCG291	Basic Electrical and Electronics Engineering Lab	ES	0	0	3	1.5	100
ESCG292	Engineering Graphics & Design Lab	ES	0	0	3	1.5	100
Total						21	850
AUG-2	Environmental Science	AU*	1	0	0	0	50

SEMESTER-II

Total hours:28



Course Code	Course Name	Course Type	Hours per Week			Credits	Total Marks
			L	т	Ρ		
BSCG301	Probability & Statistics	BS	3	0	0	3	100
ESCG301	Applied Digital Logic Design	ES	3	0	0	3	100
ESCG302	Data Structure & Algorithms	ES	3	0	0	3	100
ESCG303	Introduction to Python Programming	ES	3	0	0	3	100
PCC- CSG301	Computer Organization & Architecture	PC	3	0	0	3	100
ESCG391	Applied Digital Logic Design Lab	ES	0	0	3	1.5	100
ESCG392	Data Structure & Algorithms Lab	ES	0	0	3	1.5	100
ESCG393	Introduction to Python Programming Lab	ES	0	0	3	1.5	100
PCC- CSG391	Computer Organization & Architecture Lab	PC	0	0	3	1.5	100
Total						21	900
AUG-3	Constitution of India	AU*	1	0	0	0	50

SEMESTER-III

Totalhours:28

SEMESTER-IV

Course Code	Course Name	Course Type	Hours per Week			Credits	Total Mark
			L	Т	Ρ		S
HSMCG401	Design Thinking for Entrepreneurship and Startups	HS	3	0	0	3	100
PCC-CSG401	Operating Systems	PC	3	0	0	3	100
PCC-CSG402	Design and Analysis of Algorithms	PC	3	0	0	3	100
PCC-CSG403	Object-Oriented Programming	PC	3	0	0	3	100
PCC-CSG404	Formal Language & Automata Theory	PC	3	0	0	3	100
PCC-CSG405	Discrete Mathematics	PC	4	0	0	4	100
PCC-CSG491	Operating Systems Lab	PC	0	0	3	1.5	100
PCC-CSG492	Design and Analysis of Algorithms Lab	PC	0	0	3	1.5	100
PCC-CSG493	Object-Oriented Programming Lab	PC	0	0	3	1.5	100
Total						23.5	900

Total hours:28



SEMESTER-V

Course Code	Course Name	Course Type	Hours per Week			Credits	Total Marks
			L	т	Ρ		
PCC-CSG501	Database Management Systems	PC	3	0	0	3	100
PCC-CSG502	Computer Networks	PC	3	0	0	3	100
PCC-CSG503	Optimization Techniques	PC	3	0	0	3	100
PCC-CSG504	Compiler Design	PC	3	0	0	3	100
PEC-CSG501	Elective-I A. Digital Image Processing B. Artificial Intelligence C. Cloud Computing	PE	3	0	0	3	100
PCC-CSG591	Database Management Systems Lab	PC	0	0	3	1.5	100
PCC-CSG592	Computer Networks Lab	PC	0	0	3	1.5	100
PCC-CSG593	Optimization Technique Lab	PC	0	0	3	1.5	100
PEC-CSG591	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					

Total hours:27



SEMESTER-VI

Course Code	Course Name	Course Type	Hours per Week			Credits	Total Marks
			L	т	Р		
PCC-CSG601	Machine Learning and its Applications	РС	3	0	0	3	100
PCC-CSG602	Data Mining and Data Warehousing	PC	3	0	0	3	100
PEC-CSG601	Elective-II A. Soft Computing B. Data Handling and Visualization C. Pattern Recognition	PE	3	0	0	3	100
PEC-CSG602	Elective-III A. Speech and Natural Language Processing B. Data Modeling and Simulation C. Computer Vision	PE	3	0	0	3	100
OEC-CSG601	Open Elective-I A. Software Project Management B. Human Resource Development C. Operational Research D. MOOC**	OE	3	0	0	3	100
PCC-CSG691	Machine Learning and its Applications Lab	РС	0	0	3	1.5	100
PCC-CSG692	Data Mining and Data Warehousing Lab	PC	0	0	3	1.5	100
PEC-CSG691	Elective-II A. Soft Computing Lab B. Data Handling and Visualization Lab C. Pattern Recognition Lab	PE	0	0	3	1.5	100
PROJ-CSG681	Technical Seminar with Modern Tool Application	PROJ		-		2	100
Total			Tota			21.5	900

Totalhours:24



SEMESTER-VII

Course Code	Course Name	Course Type	Hours per Week			Credits	Total Marks
			L	Т	Ρ		
PCC-CSG701	Software Engineering	PC	3	0	0	3	100
PEC-CSG701	Elective-IV A. Deep Learning B. Semantic Analysis C. Cyber Threat Intelligence	PE	3	0	0	3	100
	Elective-V						
PEC-CSG702	A. Quantum Computing B. Distributed System C. Data and Internet Security	PE	3	0	0	3	100
OEC-CSG701	Open Elective-II A. Robotics and its Applications B. Digital Signal Processing C. Information Security and Privacy D.MOOC**	OE	3	0	0	3	100
OEC-CSG702	Open Elective-III A. Soft Skills and Interpersonal Communication B. Human Resource Development and Organizational Behavior C. Cyber Law and Ethics D. MOOC**	OE	3	0	0	3	100
PCC-CSG791	Software Tools and Techniques Lab	PC	0	0	2	1	50
PROJ-CSG782	Industrial Training	PROJ	-		2	100	
PROJ-CSG783	Project-I	PROJ	-			4	100
Total						22	750

Totalhours:17



SEMESTER-VIII

Course Code	Course Name	Course Type	Hours per Week			per		per		per		per		per		per		per		Total Marks
			L	т	Ρ															
OEC-CSG801	Open Elective-IV A. Research Methodologies B. MOOC	OE	3	0	0	3	100													
PROJ-CSG881	Grand Viva	PROJ	-			4	100													
PROJ-CSG882	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.