

Second Year - Third Semester

A.TH	IEORY						
Sl	Subject	Theory	Contact Hours/Week				Credit
No.	Code					-	Points
			L	Т	Р	Total	
1	HU301	Values & Ethics in Profession	3	0	0	3	3
2	M301	Mathematics-3	3	1	0	4	4
3	CH301	Basic Environmental Engineering &	3	1	0	4	4
		Disaster Management					
4	CS301	Digital Logic Design	3	1	0	4	4
5	CS302	Data Structure & Algorithm	3	1	0	3	4
6	GS301	Essential Studies for Professionals – III	2	0	0	2	2
	•	Total of Theory				21	21
B. PF	RACTICAL						
7	CS391	Digital Logic Design Lab	0	0	3	3	2
8	CS392	Data Structure & Algorithm Lab	0	0	3	3	2
9	HU381	Technical Report Writing & Language Lab	0	0	2	2	2
	•	Total of Practical				8	6
C. SE	ESSIONAL						
10	GS381	Skill Development for Professionals - III	2	0	0	2	1
		Total of Sessional				2	1
		Total of Semester				31	28



Second Year - Fourth Semester

A.TH	EORY						
S1	Subject	Theory	Conta	Credit			
No.	Code						Points
			L	Т	Р	Total	
1	M(CS)401	Numerical Methods	2	1	0	3	2
2	CS401	Data Communication	3	0	0	3	3
3	CS402	Formal Language & Automata Theory	3	1	0	4	4
4	CS403	Computer Organisation &	3	1	0	4	4
		Architecture					
5	CS404	Discrete Mathematics	3	1	0	4	4
6	GS401	Essential Studies for Professionals –	2	0	0	2	2
		IV					
		Total of Theory				20	19
B. PR	RACTICAL						
7	M(CS)491	Numerical Methods Lab	0	0	3	3	2
8	CS491	Data Communication Lab	0	0	3	3	2
9	CS492	Software Tools	0	0	3	3	2
10	CS493	Computer Organisation &	0	0	3	3	2
		Architecture Lab					
		Total of Practical				12	8
C. SE	ESSIONAL						
11	GS481	Skill Development for Professionals	2	0	0	2	1
		– IV					
		Total of Sessional				2	1
		Total of Semester				34	28



Third Year-Fifth Semester

A.TH	IEORY							
S1	Subject	Theory	Contac	Contact Hours/Week				
No.	Code						Points	
			L	Т	Р	Total		
1	HU501	Economics for Engineers	3	0	0	3	3	
2	CS501	Design & Analysis of Algorithm	3	1	0	4	4	
3	CS502	Microprocessors & Microcontrollers	3	1	0	4	4	
4	CS503	Data Base Management Systems	3	1	0	4	4	
5	GS501	Essential Studies for Professionals – V	2	0	0	2	2	
6	Free		3	0	0	3	3	
	Elective							
	CS504A	Circuit Theory & Network						
	CS504B	Data Communication						
	CS504C	Digital Signal Processing						
	CS504D	Object Oriented Programming using Java						
		Total of Theory				20	20	
B. PF	RACTICAL							
7	CS591	Design & Analysis of Algorithm Lab	0	0	3	3	2	
8	CS592	Microprocessors & Microcontrollers Lab	0	0	3	3	2	
9	CS593	Data Base Management Systems Lab	0	0	3	3	2	
10	F.E.							
	CS594A	Circuit Theory & Network Lab						
	CS594B	Data Communication Lab	0	0	3	3	2	
	CS594C	Digital Signal Processing Lab						
	CS594D	Object Oriented Programming using Java						
		Total of Practical				12	8	
C. SE	ESSIONAL							
11	GS581	Skill Development for Professionals – V	2	0	0	2	1	
		Total of Sessional				2	1	
		Total of Semester				34	29	



Third Year – Sixth Semester

A.TH	EORY						
Sl	Subject	Theory	Contac	et Hou	rs/Wee	k	Credit
No.	Code						Points
			L	Т	Р	Total	
1	HU601	Principles of Management	2	0	0	2	2
2	CS601	Software Engineering	3	0	0	3	3
3	CS602	Computer Networks	3	1	0	4	4
4	CS603	Operating System	3	0	0	3	3
5	GS601	Essential Studies for Professionals – VI	2	0	0	2	2
6	P.E		3	0	0	3	3
	CS604A	Human Resource Management					
	CS604B	Computer Graphics & Multimedia					
	CS604C	Information Theory & Coding					
7	F. E.		3	0	0	3	3
	CS605A	Data Science & Data Analytics					
	CS605B	Operation Research					
	CS605C	Distributed DBMS					
		Total of Theory				20	20
	ACTICAL						
8	CS691	Software Engineering Lab using C++	0	0	3	3	2
9	CS692	Computer Networks Lab	0	0	3	3	2
10	CS693	Operating System Lab	0	0	3	3	2
11	CS695	A. Data Science & Data Analytics Lab	0	0	3	3	2
		B. Operation Research Lab					
		C. Distributed DBMS Lab					
12	CS681	Seminar	0	0	3	3	2
		Total of Practical				15	10
C. SE	SSIONAL						
13	GS681	Skill Development for Professionals - VI	2	0	0	2	1
		Total of Sessional		•		2	1
		Total of Semester				37	31
		Industrial Training to be done dur	ing 6 th - 7 th Semest	er brea	ık.		



	HEORY		~~~~~				
S1	Subject	Theory	Conta	et Hours		Credit	
No.	Code		Ŧ		D	T 1	Points
4	00701		L	T	P	Total	
1	CS701	Artificial Intelligence	3	0	0	3	3
2	CS702	Cryptography & Network Security	2	0	0	2	2
3	CS703	Compiler Design	2	0	0	2	2
4	GS701	Essential Studies for Professionals – VII	2	0	0	2	2
5	CS704	A. Pattern RecognitionB. Soft ComputingC. Distributed Operating SystemD. Image Processing	3	0	0	3	3
6	CS705	A. Advanced Computer Architecture B. Data Warehousing and Data Mining C. Sensor Networks D. Internet Technology	3	0	0	3	3
7	CS706	A. Mobile Computing B. Microelectronics & VLSI Design C. Control System D. Modelling & Simulation	3	0	0	3	3
		Total of Theory				18	18
	RACTICAI						
8	HU781	Group Discussion	0	0	3	3	2
9	CS791	Artificial Intelligence Lab	0	0	3	3	2
10	CS793	Compiler Deisgn Lab	0	0	3	3	2
11	CS794	A. Pattern Recognition LabB. Soft Computing LabC. Distributed Operating System LabD. Image Processing Lab	0	0	3	3	2
12	CS795	A. Advanced Computer Architecture Lab B. Data Warehousing and Data Mining Lab C. Sensor Networks Lab D. Internet Technology Lab	0	0	3	3	2
13	CS782	Industrial Training Evaluation					2
14	CS783	Project- 1				3	2
		Total of Practical		<u> </u>		18	14
C. SI	ESSIONAL	4				-	•
15	GS781	Skill Development for Professionals - VII	2	0	0	2	1
		Total of Sessional				2	1
		Total of Semester				38	32

Fourth Year-Seventh Semester



Sl No.	Subject Code	Theory	Contact Hours/Week			I	Credit Points
			L	Т	Р	Total	
1	HU801	A. Organisational Behaviour B. Project Management	2	0	0	2	2
2	CS801	Deep Learning	2	0	0	2	2
3	CS802	Big Data Analytics	3	0	0	3	3
4	CS803	A. Cloud Computing & IOTB. Parallel ComputingC. Natural Language ProcessingD. Business Analytics	3	0	0	3	3
5	CS804	A. Technology Management B. Optical Networking C. Low Power Circuits & Systems D. E-Commerce & Cyber Law E. Robotics	3	0	0	3	3
	ł	Total of Theory				13	13
B. PI	RACTICAL	·					
6	CS891	Design Lab / Industrial problem related practical training (Workshop needed)	0	0	6	6	4
7	CS892	Project-2	0	0	12	12	6
8	CS893	Grand Viva					3
		Total of Practical				18	13
		Total of Semester				31	26

Fourth Year - Eighth Semester