

GCS - Degree in Computer Science & Engineering

Group-B

Semester-I Group-B (UG)

S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	CYT-411	Applied Chemistry	3	1	0	4	4
2	HUT-412	Engineering Economics and Entrepreneurship	3	1	0	4	4
3	CST-411	Elements of Computer Programming	2	0	0	2	2
4	ECT-411	Elements of Electronics Engineering	3	1	0	4	4
5	MET-412	Workshop Technology & Practice-I	2	0	0	2	2
6	CYP-411	Applied Chemistry	0	0	2	2	1
7	CSP-411	Elements of Computer Programming	0	0	2	2	1
8	ECP-411	Elements of Electronics Engineering	0	0	2	2	1
9	MEP-413	Engineering Drawing*	0	0	4	4	2
10	WSP-412	Workshop Technology & Practice-I	0	0	4	4	2
Total			13	3	14	30	23

Semester-II Group-B (UG)

S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	AMT-421	Engineering Mathematics	3	1	0	4	4
2	PHT-421	Applied Physics	3	1	0	4	4
3	HUT-421	English Communication & Soft Skills	3	0	0	3	3
4	EET-421	Elements of Electrical Engineering	3	1	0	4	4
5	MET-421	Elements of Mechanical Engineering	3	1	0	4	4
6	PHP-421	Applied Physics	0	0	2	2	1
7	HUP-421	English Communication & Soft Skills	0	0	2	2	1
8	EEP-421	Elements of Electrical Engineering	0	0	2	2	1
9	MEP-421	Elements of Mechanical Engineering	0	0	2	2	1
Total			15	4	8	27	23

Semester-IIIA Group-A (UG:Practical Training)

	TPS-501*^	Two weeks Practical Training during summer vacations				80	2 (S/US)
--	-----------	--	--	--	--	----	----------

Semester-III Group-B (UG)

S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	CST-511	Operating System	3	0	0	3	3
2	CST-512	Digital Circuit and Logic Design	3	0	0	3	3
3	CST-513	Discrete Mathematics	3	0	0	3	3
4	CST-514	Database Management System	3	0	0	3	3
5	CST-515	Data Communication and Computer Networks	3	0	0	3	3
6	CST-516	Software Engineering	3	0	0	3	3
7	CSP-511	Operating System	0	0	2	2	1
8	CSP-512	Digital Circuit and Logic Design	0	0	2	2	1
9	CSP-514	Database Management System	0	0	2	2	1
10	CSP-515	Data Communication and Computer Networks	0	0	2	2	1
Total			18	0	8	26	22

Semester-IV Group-B (UG)							
S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	AMT-521	Higher Engg Mathematics	4	0	0	4	4
2	CST-521	Web Technologies	3	0	0	3	3
3	CST-522	Computer Organization	3	0	0	3	3
4	CST-523	Data Structures and Algorithms	3	1	0	4	4
5	CST-524	System Software	3	1	0	4	4
6	CST-525	Automata and Formal Languages	3	0	0	3	3
7	CSP-521	Web Technologies	0	0	4	4	2
8	CSP-523	Data Structures and Algorithms	0	0	2	2	1
9	CSP-524	System Software	0	0	2	2	1
Total			19	2	8	29	25

Semester-V Group-B (UG)							
S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	PHT-611	Physics of Matetials	3	1	0	4	4
2	CST-611	Algorithm Analysis and Design	3	1	0	4	4
3	CST-612	Artificial Intelligence	3	0	0	3	3
4	CST-613	Software Reliability and Testing	3	0	0	3	3
5	CST-614	Microprocessor and Applications	3	0	0	3	3
6	CST-615	Data Mining and Warehousing	3	0	0	3	3
7	PHP-611	Physics of Matetials	0	0	2	2	1
8	CSP-611	Algorithm Analysis and Design	0	0	2	2	1
9	CSP-613	Software Reliability and Testing	0	0	2	2	1
10	CSP-614	Microprocessor and Applications	0	0	2	2	1
Total			18	2	8	28	24

Semester-VI Group-B (UG)							
S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	AMT-621	Numerical Analysis	3	1	0	4	4
2	CST-621 (A-D)	Elective – I	3	0	0	3	3
3	**O-62*	Open Elective-I	3	0	0	3	3
4	CST-623	Computer Graphics and Multimedia	3	1	0	4	4
5	CST-624	Network Programming	3	1	0	4	4
6	CST-625	Simulation and Modeling	3	1	0	4	4
7	AMP-621	Numerical Analysis	0	0	2	2	1
8	CSP-623	Computer Graphics and Multimedia	0	0	2	2	1
9	CSP-624	Network Programming	0	0	2	2	1
10	CSP-625	Simulation and Modeling	0	0	2	2	1
Total			18	4	8	30	26

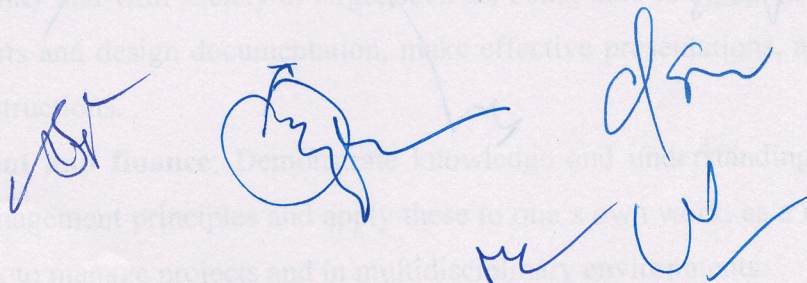
Semester- VIIA (UG:Industrial Training)							
	TPS-701*^	Industrial Training during summer vacations (6 weeks)				200	8 (S/US)

Semester-VII Group-B (UG)							
S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	HUM-711	Human Values and Professional Ethics	2	0	0	2	2
2	CST-711 (A-D)	Elective – II	3	0	0	3	3
3	CST-712	Advanced Computer Architecture	3	1	0	4	4
4	CST-713	Compiler Design	3	1	0	4	4
5	**O-71*	Open Elective-II	3	0	0	3	3
6	CSP-715	Project	0	0	6	6	3
7	CSP-716	Emerging Technologies	0	0	2	2	1
Total			14	2	8	24	20

Semester-VIII Group-B (UG)							
S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	CHM-721	Environmental Studies	3	0	0	3	3
2	HUT-721	Principles of Management	3	1	0	4	4
3	CST-721 (A-D)	Elective – III	3	0	0	3	3
4	CST-722	Soft Computing	3	0	0	3	3
5	**O-72*	Open Elective-III	3	0	0	3	3
6	CSP-722	Soft Computing	0	0	2	2	1
7	CSP-723	Project	0	0	6	6	3
8	CSP-724	Seminar	0	0	4	4	2
9	CSP-725	Advanced Technologies	0	0	2	2	1
Total			15	1	14	30	23

*^ The credit will not be considered for CGPA calculation

	Theory	Tutorial	Practical	Hrs.	Credits
Total Basic Sciences	19	5	8	32	28
Total Humanities	9	2	2	13	12
Total Other Engineering	11	3	14	28	21
Total Open Electives	9	0	0	9	9
Total Core Subject	77	8	40	125	105
Total Mandatory Courses	5	0	0	5	5
Projects	0	0	12	12	6
Summer Training and Industrial Training					10
Total	130	18	76	224	186



LIST OF ELECTIVES						
S.No	Subject	Subject name	L	T	P	Cr
Elective-I						
1	CST-621 A	Advance Microprocessor	3	0	0	3
2	CST-621 B	Cryptography	3	0	0	3
3	CST-621 C	Digital signal Processing	3	0	0	3
4	CST-621 D	Natural Language Processing	3	0	0	3
Elective-II						
1	CST-711 A	Operating System internals	3	0	0	3
2	CST-711 B	Distributed Systems	3	0	0	3
3	CST-711C	Operation Research	3	0	0	3
4	CST-621 D	Client-Server architecture	3	0	0	3
Elective-III						
1	CST-721 A	Mobile Communication Systems	3	0	0	3
2	CST-721 B	Embedded Systems	3	0	0	3
3	CST-721 C	Visual Programming	3	0	0	3
4	CST-721 D	Digital image Processing	3	0	0	3

LIST OF OPEN ELECTIVES

Sr.	Subject	Subject name	L	T	P	Cr.
Open Elective-I						
1	CSO-621	System Management & Security	3	0	0	3
2	CSO-622	Object Oriented Programming	3	0	0	3
3	CSO-623	Software Engineering	3	0	0	3
Open Elective-II						
1	CSO-711	Internet Technologies	3	0	0	3
2	CSO-712	Computer Networks	3	0	0	3
3	CSO-713	Data Organization	3	0	0	3
Open Elective-III						
1	CSO-721	Java Programming	3	0	0	3
2	CSO-722	Cloud Computing	3	0	0	3
3	CSO-723	Computer graphics	3	0	0	3