B.E. Computer Science & Engineering

V SEMESTER

CI	Cubicat		Teaching Hours /Week		Examination				Credits
Sl. No	Subject Code	Title	Theory	Practical/ Drawing	Duration	Theory/ Practical Marks	I.A. Marks	Total Marks	
1	15CS51	Management and Entrepreneurship	04		03	80	20	100	4
2	15CS52	Computer Networks	04		03	80	20	100	4
3	15CS53	Data Base Management System	04		03	80	20	100	4
4	15CS54	Automata theory and Computability	04		03	80	20	100	4
5	15CS55x	Professional Elective 1	03		03	80	20	100	3
6	15CS56x	Open Elective 1	03	}	03	80	20	100	3
7	15CSL57	Computer Network Laboratory		1I+2P	03	80	20	100	2
8	15CSL58	DBMS Laboratory with mini project		1I+2P	03	80	20	100	2
		TOTAL	22	6	24	640	160	800	26

Professional Elective 1			1
15CS551	Object Oriented Modeling and Design	15CS561	Mobile Application Development
15CS552	Software Testing	15CS562	Artificial Intelligence
15CS553	Advanced JAVA and J2EE	15CS563	Embedded Computing System
15CS554	Advanced Algorithms	15CS564	Dot Net framework for application development

1. Professional Elective: Electives relevant to chosen specialization / branch

2. Open Elective: Electives from other technical and/or emerging subject areas

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VI SEMESTER

CI	Cubicat		Teaching Hours /Week		Examination				Credits
Sl. No	Subject Code	Title	Theory	Practical/ Drawing	Duration	Theory/ Practical Marks	I.A. Marks	Total Marks	
1	15CS61	Cryptography, Network Security and Cyber Law	04		03	80	20	100	4
2	15CS62	Computer Graphics & Visualization	04		03	80	20	100	4
3	15CS63	System Software and Compiler Design	04		03	80	20	100	4
4	15CS64	Operating Systems	04		03	80	20	100	4
5	15CS65x	Professional Elective 2	03		03	80	20	100	3
6	15CS66x	Open Elective 2	03		03	80	20	100	3
7	15CSL67	System Software and Operating System Laboratory		1I+2P	03	80	20	100	2
8	15CSL68	Computer Graphics Laboratory with mini project		1I+2P	03	80	20	100	2
		TOTAL	22	6	24	640	160	800	26

Professional Elective 2			Open Elective 2			
15CS651	Data Mining and Data Warehousing	15CS661	Mobile computing			
15CS652	Software Architecture and Design Patterns	15CS662	Python Application Programming			
15CS653	Operation research	15CS663	Multi-core Architecture and Programming			
15CS654	Distributed Computing system	15CS664	Service Oriented Architecture			

1. Professional Elective: Electives relevant to choosen specialization / branch

2. Open Elective: Electives from other technical and/or emerging subject areas

B.E. Computer Science & Engineering

VII SEMESTER

CI	Cubicat		Teaching Hours /Week		A	Exam	ination		Credits
Sl. No	Subject Code	Title	Theory	Practical/ Drawing	Duration	I.A. Marks	Theory/ Practical Marks	Total Marks	
1	15CS71	Web Technology & its applications	04		03	20	80	100	4
2	15CS72	Advanced Computer Architectures	04		03	20	80	100	4
3	15CS73	Machine Learning and its Application	04		03	20	80	100	4
4	15CS74x	Professional Elective 3	03		03	20	80	100	3
5	15CS75x	Professional Elective 4	03		03	20	80	100	3
6	15CSL76	Machine Learning Laboratory		1I+2P	03	20	80	100	2
7	15CSL77	Web Technology Laboratory with mini project		1I+2P	03	20	80	100	2
8	15CSP78	Project Phase 1 + Seminar				100		100	2
		TOTAL	18	6	21	240	560	800	24

Professional Elective 3			Professional Elective 4			
15CS741	Natural Language Processing	15CS751	Soft and Evolutionary Computing			
15CS742	Cloud Computing and its Application	15CS752	Computer Vision and Robotics			
15CS743	Digital Image Processing	15CS753	Human Computer Interaction			
15CS744	Unix System Programming	15CS754	Storage Area Networks			

- 1. Professional Elective: Electives relevant to choosen specialization / branch
- 2. Open Elective: Electives from other technical and/or emerging subject areas
- 3. Project Phase 1 + Seminar: Literature Survey, Problem Identification, Objectives and Methodology, Submission of Synopsis and Seminar

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VIII SEMESTER

Sl.	Subject	Teaching Hours /Week			4	Credits			
No	Subject Code	Title	Theory	Practical/ Drawing	Duration	I.A. Marks	Theory/ Practical Marks	Total Marks	
1	15CS81	IoT Technology	4		3	20	80	100	4
2	15CS82	Big Data Analytics	4		3	20	80	100	4
3	15CS83x	Professional Elective 5	3		3	20	80	100	3
4	15CS84	Internship / Professional Practice	Industr	y Oriented	3	50	50	100	2
5	15CSP85	Project work phase II		6	3	100	100	200	5
6	15CSS86	Seminar		4		100		100	2
		TOTAL	11	10	15	310	390	700	20

Professional Elective 5	
15CS831	High Performance Computing
15CS832	User Interface Design
15CS833	Network management
15CS834	System Simulation and Modeling

- 1. Professional Elective: Electives relevant to choosen specialization / branch
- 2. Open Elective: Electives from other technical and/or emerging subject areas
- 3. Internship / Professional Practice: To be carried out between 6th and 7th semester vacation or 7th and 8th semester vacation period