

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
CHOICE BASED CREDIT SYSTEM (CBCS)
SCHEME OF TEACHING AND EXAMINATION 2015-2016
 B.E. Information Science & Engineering

V SEMESTER

Sl. No	Subject Code	Title	Teaching Hours /Week		Examination				Credits
			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 Compatibility	04	--	03	80	20	100	4
5	15CS/IS55x	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	
15CS551	Object Oriented Analysis and Design
15IS552	Social Network Analysis
15CS553	Advanced JAVA and J2EE
15IS554	Programming Languages

1. **Professional Elective: Electives relevant to chosen specialization / branch**
2. **Open Elective: Electives from other technical and/or emerging subject areas (To be announced separately)**

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Sl. No	Subject Code	Title	Teaching Hours /Week		Examination			Credits	
			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	15IS62	File Structures	04	--	03	80	20	100	4
3	15IS63	Software Testing	04	--	03	80	20	100	4
4	15CS64	Operating Systems	04	--	03	80	20	100	4
5	15CS/IS65x	Professional Elective 2	03	--	03	80	20	100	3
6	15CS/IS66x	Open Elective 2	03	--	03	80	20	100	3
7	15ISL67	Software Testing Laboratory	--	1I+2P	03	80	20	100	2
8	15ISL68	File Structures Laboratory with mini project	--	1I+2P	03	80	20	100	2
TOTAL			22	06	24	640	160	800	26

Professional Elective 2	
15CS651	Data Mining and Data Warehousing
15IS652	System Software
15CS653	Operation research
15CS654	Distributed Computing system

1. **Professional Elective: Electives relevant to chosen specialization / branch**
2. **Open Elective: Electives from other technical and/or emerging subject areas (To be announced separately)**

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Sl. No	Subject Code	Title	Teaching Hours /Week		Examination			Credits	
			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	15IS72	Software Architecture and Design Patterns	04	--	03	20	80	100	4
3	15IS73	Information Management System	04	--	03	20	80	100	4
4	15CS/IS74x	Professional Elective 1	03	--	03	20	80	100	3
5	15CS/IS75x	Professional Elective 2	03	--	03	20	80	100	3
6	15ISL76	Design Pattern Laboratory	--	1I+2P	03	20	80	100	2
7	15CSL77	Web Technology Laboratory with mini project	--	1I+2P	03	20	80	100	2
8	15ISP78	Project Phase 1 + Seminar	--	--	--	100	--	100	2
TOTAL			18	06	21	240	560	800	24

Professional Elective		Professional Elective	
15CS741	Natural Language Processing	15CS751	Soft and Evolutionary Computing
15CS742	Cloud Computing and its Application	15CS752	Computer Vision and Robotics
15IS743	Distributed Operating System	15CS753	Human Computer Interaction
15CS744	Unix System Programming	15CS754	Storage Area Networks

1. **Professional Elective: Electives relevant to chosen 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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Sl. No	Subject Code	Title	Teaching Hours /Week		Examination			Credits	
			Theory	Practical/ Drawing	Duration	I.A. Marks	Theory/ Practical Marks		Total Marks
1	15CS81	IoT Technology	4	--	3	20	80	100	4
2	15IS82	User Interface Design	4	--	3	20	80	100	4
3	15CS/IS83x	Professional Elective	3	--	3	20	80	100	3
4	15IS84	Internship / Professional Practice	Industry Oriented		3	50	50	100	2
5	15ISP85	Project work phase II	--	6	3	100	100	100	5
6	15ISS86	Seminar	--	4	--	100	--	100	2
TOTAL			11	10	15	310	390	700	20

Professional Elective	
15CS831	High Performance Computing
15IS832	Big Data Analytics
15IS833	Virtual and Augmented reality
15CS834	System Simulation and Modeling

1. **Professional Elective:** Electives relevant to chosen 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