

**Scheme and Syllabus of Semesters V to VII of B.E
(With effect from 2006-2007)**

Information Science and Engineering

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM
SCHEME OF TEACHING AND EXAMINATION
V SEMESTER
B.E. INFORMATION SCIENCE AND ENGINEERING

S. No.	Subject Code	Subject	Teaching Dept.	Teaching Hrs / Week		Examination			
				Theory	Practical	Duration (Hrs)	Marks		
							IA	Exam	Total
1	06AL51	Entrepreneurship and Management	CSE/ISE	04	-	03	25	100	125
2	06CS52	Systems Software	CSE/ISE	04	-	03	25	100	125
3	06CS53	Operating Systems	CSE/ISE	04	-	03	25	100	125
4	06CS54	Database Management Systems	CSE/ISE	04	-	03	25	100	125
5	06CS55	Computer Networks – I	CSE/ISE	04	-	03	25	100	125
6	06CS56	Formal Languages and Automata Theory	CSE/ISE	04	-	03	25	100	125
7	06CSL57	Database Applications Laboratory	CSE/ISE	-	03	03	25	50	75
8	06CSL58	Algorithms Laboratory	CSE/ISE	-	03	03	25	50	75
Total				24	06	-	200	700	900

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM
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VI SEMESTER
B.E. INFORMATION SCIENCE AND ENGINEERING

S. No.	Subject Code	Subject	Teaching Dept.	Teaching Hrs / Week		Duration (Hrs)	Examination		
				Theory	Practical		IA	Exam	Total
1	06CS61	Unix Systems Programming	CSE/ISE	04	-	03	25	100	125
2	06IS62	File Structures	CSE/ISE	04	-	03	25	100	125
3	06IS63	Software Engineering	CSE/ISE	04	-	03	25	100	125
4	06CS64	Computer Networks - II	CSE/ISE	04	-	03	25	100	125
5	06IS65	Information Systems	CSE/ISE	04	-	03	25	100	125
6		Elective I (Group-A)	CSE/ISE	04	-	03	25	100	125
7	06ISL67	File Structures Laboratory	CSE/ISE	-	03	03	25	50	75
8	06ISL68	Systems Software Laboratory	CSE/ISE	-	03	03	25	50	75
Total				24	06	-	200	700	900

Elective I – Group A

06CS661	Operations Research
06IS662/06CS62	Compiler Design
06CS663	Data Compression
06CS664	Pattern Recognition
06IS665/06CS65	Computer Graphics and Visualization

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S. No.	Subject Code	Subject	Teaching Dept.	Teaching Hrs / Week		Examination			
				Theory	Practical	Duration (Hrs)	Marks		
							IA	Exam	Total
1	06CS71	Object Oriented Modeling and Design	CSE/ISE	04	-	03	25	100	125
2	06IS72	Software Architectures	CSE/ISE	04	-	03	25	100	125
3	06CS73	Programming the Web	CSE/ISE	04	-	03	25	100	125
4	06IS74	Data Mining	CSE/ISE	04	-	03	25	100	125
5		Elective II (Group-B)	CSE/ISE	04	-	03	25	100	125
6		Elective III(Group-C)	CSE/ISE	04	-	03	25	100	125
7	06CSL77	Networks Laboratory	CSE/ISE	-	03	03	25	50	75
8	06CSL78	Web Programming Laboratory	CSE/ISE	-	03	03	25	50	75
Total				24	06	-	200	700	900

Elective II – Group B

06CS751	Advanced DBMS
06CS74/06IS752	Embedded Computing Systems
06CS753	JAVA and J2EE
06CS754	Multimedia Computing
06IS755	Advanced Software Engineering
06CS756	Neural Networks

Elective III – Group C

06CS761	C# Programming and .Net
06CS762	Digital Image Processing
06CS763	Game Theory
06CS764	Artificial Intelligence
06IS765	User Interface Design
06CS766	Fuzzy Logic

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VIII SEMESTER
B.E. INFORMATION SCIENCE AND ENGINEERING

S. No.	Subject Code	Subject	Teaching Dept.	Teaching Hrs / Week		Examination			
				Theory	Practical	Duration	Marks		
							IA	Exam	Total
1	06IS81 / 06CS842	Software Testing	CSE/ISE	04	-	03	25	100	125
2	06CS82	System Modeling and Simulation	CSE/ISE	04	-	03	25	100	125
3		Elective IV(Group-D)	CSE/ISE	04	-	03	25	100	125
4		Elective V(Group-E)	CSE/ISE	04	-	03	25	100	125
5	06IS85	Project Work	ISE		06	03	100	100	200
6	06IS86	Seminar	ISE		-	-	50	-	50
Total				16	06		250	500	750

Elective IV – Group D

06CS831	Mobile Computing
06CS832	Web 2.0
06IS833	Storage Area Networks
06CS834	Network Management Systems
06CS835	Information and Network Security
06CS836	Microcontroller-Based Systems

Elective V– Group E

06CS841	Adhoc Networks
06CS84 2	Information Retrieval
06IS843	Supply Chain Management
06CS844	Services Oriented Architecture
06CS845	Grid Computing
06IS846	Decision Support Systems

NOTE: Students have to register for one Elective from each of the five Elective Groups.

