

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM
CHOICE BASED CREDIT SYSTEM (CBCS)
SCHEME OF TEACHING AND EXAMINATION 2016-2017
M. Tech. (Computer Science & Engineering)

I Semester

CREDIT BASED

Subject Code	Name of the Subject	Teaching hours/week		Duration of Exam in Hours	Marks for		Total Marks	CREDITS
		Lecture	Practical / Field Work / Assignment		I.A.	Exam		
16SCS11	Advances in Operating Systems	4	-	3	20	80	100	4
16SCS12	Cloud Computing	4	--	3	20	80	100	4
16SCS13	Advances in Data Base Management System	4	--	3	20	80	100	4
16SCS14	Probability Statistics and Queuing Theory	4	--	3	20	80	100	4
16SCS15x	Course Electives – I	3	--	3	20	80	100	3
16SCS16	Operating Systems and ADBMS Laboratory	--	3(2 Hrs lab+ 1 Hr Instruction)	3	20	80	100	2
16SCS17	Seminar	--	--	--	100	--	100	1
Total		20	3	18	220	480	700	22

Course Electives 1	
16SCS151	Advances in Digital Image Processing
16SCS152	Embedded Computing Systems
16SCS153	Advances in Storage Area Networks
16SCS154	Advances in Computer Graphics

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II Semester

CREDIT BASED

Subject Code	Name of the Subject	Teaching hours/week		Duration of Exam in Hours	Marks for		Total Marks	CREDITS
		Lecture	Practical / Field Work / Assignment/ Tutorials		I.A.	Exam		
16SCS21	Managing Big Data	4	--	3	20	80	100	4
16SCS22	Advances in Computer Networks	4	--	3	20	80	100	4
16SCS23	Advanced Algorithms	4	--	3	20	80	100	4
16SCS24	Internet of Things	4	--	3	20	80	100	4
16SCS25x	Course Elective - II	4	--	3	20	80	100	3
16SCS26	Mini-project	--	3 hrs lab	3	20	80	100	2
16SCS27	Seminar	--	--	--	100	--	100	1
Total		20	3	18	220	480	700	22

Course Elective II	
16SCS251	Artificial Intelligence and Agent Technology
16SCS252	Pattern Recognition
16SCS253	Information and Network Security
16SCS254	Web Services

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III SEMESTER: Internship

CREDIT BASED

Sl. No	Subject Code	Title	Teaching Hours /Week		Examination				Credit
			Theory	Practical/Field Work/Assignment	Duration	I.A. Marks	Theory/Practical Marks	Total Marks	
1	16SCS31	Seminar / Presentation on Internship (After 8 weeks from the date of commencement)	-	-	-	25	-	25	20
2	16SCS32	Report on Internship	-	-	-	25	-	25	
3	16SCS33	Evaluation and Viva-Voce of Internship	-	-	-	-	50	50	
4	16SCS34	Evaluation of Project phase -1	-	-	-	50	-	50	1
TOTAL			-	-	-	100	50	150	21

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IV SEMESTER

CREDIT BASED

Sl. No	Subject Code	Title	Teaching Hours /Week		Examination				Credit
			Theory	Practical/Field Work/Assignment	Duration	I.A. Marks	Theory/Practical Marks	Total Marks	
1	16SCS41	Machine Learning Techniques	4	-	3	20	80	100	4
2	16SCS42x	Course Elective-III	3	-	3	20	80	100	3
3	16SCS43	Evaluation of Project phase -2	-	-	-	50	-	50	3
4	16SCS44	Evaluation of Project and Viva-Voce	-	-	-	-	100+100	200	10
TOTAL			7	-	6	90	360	450	20

Elective	
16SCS421	Computer Vision
16SCS422	Business Intelligence and its Applications
16SCS423	Agile Technologies
16SCS424	Wireless Network and Mobile Computing

Note:

- 1. Project Phase-1:** 6-week duration shall be carried out between 2nd and 3rd Semester vacation. Candidates in consultation with the guide shall carry out literature survey/visit industries to finalize the topic of Project.
- 2. Project Phase-2:** 16-week duration during 4th semester. Evaluation shall be done by the committee constituted comprising of HoD as Chairman, Guide and Senior faculty of the department.
- 3. Project Evaluation:** Evaluation shall be taken up at the end of 4th semester. Project work evaluation and Viva-Voce examination shall conducted
- 4. Project evaluation:**
 - a. Internal Examiner shall carry out the evaluation for 100 marks.
 - b. External Examiner shall carry out the evaluation for 100 marks.
 - c. The average of marks allotted by the internal and external examiner shall be the final marks of the project evaluation.
 - d. Viva-Voce examination of Project work shall be conducted jointly by Internal and External examiner for 100 marks.