VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM

SCHEME OF TEACHING AND EXAMINATION FOR
M.TECH(COMPUTER SCIENCE and ENGINEERING)

I Semester **Total Credits: 23**

Subject Code	Name of the Subject	Teaching hours/week		Duration of Exam in Hours	Marks for		Total Marks	CREDITS
		Lecture	Practical / Fieldwork / Assignment / Tutorials		I.A.	Exam		
14SCS11	Advances in Operating Systems	4	--	03	50	100	150	4
14SCS12	Cloud Computing	4	2 *	03	50	100	150	4
14SCS13	Advances in Data Base Management System	4	2 *	03	50	100	150	4
14SCS14	Multi Core Architecture and Programming	4	2	03	50	100	150	4
14SCS15x	Elective – I	4	2	03	50	100	150	4
14SCS16	Advances in Operating Systems Laboratory	0	3	03	25	50	75	2
14SCS17	Seminar #	0	3	--	25	--	25	1
Total		**20**	**13**	**18**	**300**	**550**	**850**	**23**

Elective I:
14SCS151 Advances in Digital Image Processing
14SCS152 Advances in Storage Area Networks
14SCS153 Embedded Computing Systems
14SCS154 Advances in Computer Graphics

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II Semester **Total Credits: 23**

Subject Code	Name of the Subject	Teaching hours/week		Duration of Exam in Hours	Marks for		Total Marks	CREDITS
		Lecture	Practical / Fieldwork/ Assignment / Tutorials		I.A.	Exam		
14SCS21	Managing Big Data	4	2 *	03	50	100	150	4
14SCS22	Advances in Computer Networks	4	2 *	03	50	100	150	4
14SCS23	Advanced Algorithms	4	--	03	50	100	150	4
14SCS24	Artificial Intelligence and Agent Technology	4	2	03	50	100	150	44
14SCS25x	Elective – II	4	2	03	50	100	150	4
14SCS26	Advanced Algorithms Laboratory	0	3	03	25	50	75	2
14SCS27	Seminar #	0	3	--	25	--	25	1
	** Project Phase I (6 Week Duration)	--	-- --	--	--	--	--	--
Total		**20**	**13**	**18**	**300**	**550**	**850**	**23**

ELECTIVE- II

14SCS251 Web Services
14SCS252 Information and Network Security
14SCS253 Pattern Recognition
14SCS254 Optical Networks

**** Between the II Semester and III Semester after availing a vacation of 2 weeks.**

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III Semester: INTERNSHIP **Total Credits: 20**

Subject Code	Name of the Subject	No. of Hrs./Week		Duration of the Exam in Hours	Marks for		Total Marks	CREDITS
		Lecture	Practical / Fieldwork		I.A.	Exam		
14SCS31	Seminar / Presentation on Internship (After 8 weeks from the date of commencement) *	--	--	--	25	--	25	1
14SCS32	Report on Internship **	--	--	--	--	75	75	15
14SCS33	Evaluation and Viva-voce	--	--	3	--	50	50	4
	Total	**--**	**--**	**3**	**25**	**125**	**150**	**20**

***The student shall make a midterm presentation of the activities undertaken during the first 8 weeks of internship to a panel comprising Internship Guide, a senior faculty from the department and Head of the Department.**

 # The College shall facilitate and monitor the student internship program.

The internship report of each student shall be submitted to the University.

****Between the III Semester and IV Semester after availing a vacation of 2 weeks.**

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IV Semester **Total Credits: 28**

Subject Code	Name of the Subject	Teaching hours/week		Duration of Exam in Hours	Marks for		Total Marks	CREDITS
		Lecture	Fieldwork/ Assignment / Tutorials		I.A.	Exam		
14SCS41	Machine Learning Techniques	4	2 *	03	50	100	150	4
14SCS42x	Elective-III	4	2	03	50	100	150	4
14SCS43	Evaluation of Project Phase-II	0	--	0	25	--	25	1
14SCS44	Evaluation of Project Phase-III	0	--	0	25	--	25	1
14SCS45	Evaluation of Project Work and Viva-voce	--	3	03	--	100 + 100	200	18
Total		**08**	**07**	**09**	**150**	**400**	**550**	**28**
Grand Total (I to IV Sem.)		**Marks: 2400 ; Credits : 94**						

Elective – III

14SCS421 Computer Vision
14SCS422 Business Intelligence and its Applications
14SCS423 Agile Technologies
14SCS424 Wireless Network and Mobile Computing

L- Lecture , T- Tutorial, P- Practical

Note:

***Lab Classes for these Core Subjects are Compulsory (Practical will be Evaluated for 20 marks and Internal assessment for 30 marks). Lab journals Should be Maintained.**

 # Seminar: Topics should be chosen from IEEE/ACM/Elsevier/Springer/any Refereed - Journals /Transactions. Encourage students to convert these seminar topics into a good survey paper or Technical paper.

1).Project Phase – I: 6 weeks duration shall be carried out between II and III Semester. Candidates in consultation with guide shall carryout literature survey / visit to Industries to finalize the topic of dissertation.

2) Internship:- 24 weeks Duration in 3rd Semester, Evaluation of Marks - Presentation : 25 marks, Report writing and Submission :75 marks and At the end of Internship Viva-Voce Exams shall be conducted for 50 marks.

3).Project Work : 20 weeks duration in IV Semester carries total marks of 250.

4)Project Phase II: 4 days for project work in a week during IV Semester. Evaluation shall be taken during the 8th week of the IV Semester. Total Marks shall be 25.

5).Project Phase – III: Evaluation shall be taken up at the end of the IV Semester for 25 marks. After the Project report is submitted, Project Work Evaluation and Viva-Voce Examination shall be conducted. Total Marks Shall be 50+50+100=200 (50 Marks for Internal Guide,50 Marks for External and 100 for Viva-Voce).

Marks of Evaluation of Project:

I) The I.A. Marks of Project Phase – II & III shall be sent to the University along with Project Work report at the end of the Semester.

II) The Project Valuation and Viva-Voce will be conducted by a committee consisting of the following:

a) Head of the Department (Chairman)

b) Guide

c) Two Examiners appointed by the university.(out of two external examiners at least one should be present).