VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI

Scheme of Teaching and Examination – 2018 - 19

M.Tech Name of the programme (CSE)

Outcome Based Education(OBE) and Choice Based Credit System (CBCS)

I SEMESTER

Sl. No	Course	Course Code	Course Title	Teaching Hours /Week		Examination				Credits
				Theory	Practical/ Field work/ Assignment	Duration in hours	CIE Marks	SEE Marks	Total Marks	
1	PCC	18CSE11	Computational Structural Mechanics	04	--	03	40	60	100	4
2	PCC	18CSE12	Advanced Design of RC Structures	04	--	03	40	60	100	4
3	PCC	18CSE13	Mechanics of Deformable Bodies	04	--	03	40	60	100	4
4	PCC	18CSE14	Structural Dynamics	04	--	03	40	60	100	4
5	PCC	18CSE15	Special Concrete	04	--	03	40	60	100	4
6	PCC	18CSEL16	Structural Engineering Lab-1	-	04	03	40	60	100	2
7	PCC	18RMI17	Research Methodology and IPR	02	--	03	40	60	100	2
			TOTAL	**22**	**04**	**21**	**280**	**420**	**700**	**24**

Note: PCC: Professional core, PEC: Professional Elective.

Internship: All the students have to undergo mandatory internship of 6 weeks during the vacation of I and II semesters and /or II and III semesters. A University examination shall be conducted during III semester and the prescribed credit shall be counted for the same semester. Internship shall be considered as a head of passing and shall be considered for the award of degree. Those, who do not take-up/complete the internship shall be declared as failed and have to complete during the subsequent University examination after satisfying the internship requirements.

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II SEMESTER

Sl. No	Course	Course Code	Course Title	Teaching Hours /Week		Examination				Credits
				Theory	Practical/ Field work/ Assignment	Duration in hours	CIE Marks	SEE Marks	Total Marks	
1	PCC	18CSE21	Advanced Design of Steel Structures	04	--	03	40	60	100	4
2	PCC	18CSE22	Finite Element Method of Analysis	04	--	03	40	60	100	4
3	PCC	18CSE23	Earthquake Resistance Structures	04	--	03	40	60	100	4
4	PEC	18CSE24X	Professional elective 1	04	--	03	40	60	100	4
5	PEC	18CSE25X	Professional elective 2	04	--	03	40	60	100	4
6	PCC	18CSEL26	Structural Engineering Lab-2	--	04	03	40	60	100	2
7	PCC	18CSE27	Technical Seminar	--	02	--	100	--	100	2
			TOTAL	**20**	**06**	**18**	**340**	**360**	**700**	**24**

Note: PCC: Professional core, PEC: Professional Elective.

Professional Elective 1		Professional Elective 2	
Course Code under 18CSE24X	Course title	Course Code under 18CSE25X	Course title
18CSE241	Advanced Design of Pre-stressed Concrete Structures	18CSE251	Advanced Structural Analysis
18CSE242	Stability of Structures	18CSE252	Design of High Rise Structures
18CSE243	Design of Precast & Composite Structures	18CSE253	Design of Industrial Structures
18CSE244	Reliability Analysis of Structures	18CSE254	Structural Health Monitoring

Note:

1. Technical Seminar: CIE marks shall be awarded by a committee comprising of HoD as Chairman, Guide/co-guide, if any, and a senior faculty of the department. Participation in the seminar by all postgraduate students of the same and other semesters of the programme shall be mandatory.

The CIE marks awarded for Technical Seminar, shall be based on the evaluation of Seminar Report, Presentation skill and Question and Answer session in the ratio 50:25:25.

2. Internship: All the students shall have to undergo mandatory internship of 6 weeks during the vacation of I and II semesters and /or II and III semesters. A University examination shall be conducted during III semester and the prescribed credit shall be counted in the same semester. Internship shall be considered as a head of passing and shall be considered for the award of degree. Those, who do not take-up/complete the internship shall be declared as failed and have to complete during the subsequent University examination after satisfying the internship requirements.

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III SEMESTER

Sl. No	Course	Course Code	Course Title	Teaching Hours /Week		Examination				Credits
				Theory	Practical/ Field work/ Assignment	Duration in hours	CIE Marks	SEE Marks	Total Marks	
1	PCC	18CSE31	Design of Concrete Bridges	04	--	03	40	60	100	4
2	PEC	18CSE32X	Professional elective 3	04	--	03	40	60	100	4
3	PEC	18CSE33X	Professional elective 4	04	--	03	40	60	100	4
4	Project	18CSE34	Evaluation of Project phase -1	--	02	--	100	--	100	2
5	INT	18CSEI35	Internship	(Completed during the intervening vacation of I and II semesters and /or II and III semesters.)		03	40	60	100	6
TOTAL				12	02	12	**260**	**240**	**500**	**20**

Note: PCC: Professional core, PEC: Professional Elective.

Professional elective 3		Professional elective 4	
Course Code under 18CSE32X	**Course title**	**Course Code under 18CSE33X**	**Course title**
18CSE321	Design Concepts of Substructures	18CSE331	Fracture Mechanics applied to concrete
18CSE322	Repair and Rehabilitation of Structures	18CSE332	Design of Masonry Structures
18CSE323	Theory of Plates and Shells	18CSE333	Design of Formwork
18CSE324	Optimization Techniques	18CSE334	Composite materials

Note:

1. Project Phase-1: Students in consultation with the guide/co-guide if any, shall pursue literature survey and complete the preliminary requirements of selected Project work. Each student shall prepare relevant introductory project document, and present a seminar. CIE marks shall be awarded by a committee comprising of HoD as Chairman, Guide/co-guide if any, and a senior faculty of the department. The CIE marks awarded for project work phase -1, shall be based on the evaluation of Project Report, Project Presentation skill and Question and Answer session in the ratio 50:25:25.

SEE (University examination) shall be as per the University norms.

2. Internship: Those, who have not pursued /completed the internship shall be declared as failed and have to complete during subsequent University examinations after satisfying the internship requirements.

Internship SEE (University examination) shall be as per the University norms.

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IV SEMESTER

Sl. No	Course	Course Code	Course Title	Teaching Hours /Week		Examination				Credits
				Theory	Practical/ Field work/ Assignment	Duration in hours	CIE Marks	SEE Marks Viva voce	Total Marks	
1	Project	18CSE41	Project work phase -2	--	04	03	40	60	100	20
			TOTAL	--	**04**	**03**	**40**	**60**	**100**	**20**

Note:

1. Project Phase-2:

CIE marks shall be awarded by a committee comprising of HoD as Chairman, Guide/co-guide, if any, and a Senior faculty of the department. The CIE marks awarded for project work phase -2, shall be based on the evaluation of Project Report subjected to plagiarism check, Project Presentation skill and Question and Answer session in the ratio 50:25:25.

SEE shall be at the end of IV semester. Project work evaluation and Viva-Voce examination (SEE), after satisfying the plagiarism check, shall be as per the University norms.