

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM
CHOICE BASED CREDIT SYSTEM (CBCS)
SCHEME OF TEACHING AND EXAMINATION 2016-2017

M.Tech.- Structural Engineering

I SEMESTER

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	16CSE11	Computational Structural Mechanics	4	-	3	20	80	100	4
2	16CSE12	Advanced Design of RC Structures	4	-	3	20	80	100	4
3	16CSE13	Mechanics of Deformable Bodies	4	-	3	20	80	100	4
4	16CSE14	Structural Dynamics	4	-	3	20	80	100	4
5	16 CSE15X	Elective-I	3	-	3	20	80	100	4
6	16CSEL16	Structural Engineering Lab-1		3	3	20	80	100	2
7	16CSE17	Seminar	-	3	-	100	-	100	1
TOTAL			19	6	18	220	480	700	22

Elective -I	
16CSE151	Advanced Design of Pre-Stressed Concrete Structures
16CSE152	Special Concrete
16CSE153	Design of Precast & Composite Structures
16CSE154	Reliability Analysis of Structures

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			Theory	Practical/ Field Work/ Assignment	Duration	I.A. Marks	Theory/ Practical Marks	Total Marks	
1	16CSE21	Advanced Design of Steel Structures	4	-	3	20	80	100	4
2	16CSE22	Earthquake Resistance Structures	4	-	3	20	80	100	4
3	16CSE23	Finite Elements Method of Analysis	4	-	3	20	80	100	4
4	16CSE24	Design Concepts of Substructures	4	-	3	20	80	100	4
5	16CSE25X	Elective-II	3	-	3	20	80	100	3
6	16CSEL26	Structural Engineering Lab-2		3	3	20	80	100	2
7	16CSE27	Seminar	-	3	-	100	-	100	1
TOTAL			19	6	18	220	480	700	22

Elective -II	
16CSE251	Design of Tall structures
16CSE252	Repair and Rehabilitation of Structures
16CSE253	Stability of Structures
16CSE254	Theory of Plates and Shells

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III SEMESTER: Internship

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	16CSE31	Seminar / Presentation on Internship (After 8 weeks from the date of commencement)	-	-	-	25	-	25	20
2	16CSE32	Report on Internship	-	-	-	25	-	25	
3	16CSE33	Evaluation and Viva-Voce of Internship	-	-	-	-	50	50	
4	16CSE34	Project Phase -1	-	-	-	50	-	50	1
TOTAL			-	-	-	100	50	150	21

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IV SEMESTER

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	16CSE41	Design of Concrete Bridges	4	-	3	20	80	100	4
2	16CSE42X	Elective-3	3	-	3	20	80	100	3
3	16CSE43	Project phase -2	-	-	-	50	-	50	3
4	16CSE44	Evaluation of Project and Viva-Voce	-	-	3	-	100+100	200	10
TOTAL			-	-	6	90	360	450	20

Elective-III	
16CSE421	Optimization Techniques
16CSE422	Design of Industrial Structures
16CSE423	Theory of Plasticity and Fracture Mechanics
16CSE424	Design of Masonry Structures

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.