

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

M.Tech. - Construction Technology

I SEMESTER

Sl. No	Subject Code	Title	Teaching Hours /Week		Examination				Credits
			Theory	Practical/ Field Work/ Assignment	Duration	I.A. Marks	Theory/ Practical Marks	Total Marks	
1	16CCT11	Mechanization in Construction	4	-	3	20	80	100	4
2	16CCT12	Construction Project and Management	4	-	3	20	80	100	4
3	16CCT13	Advanced Techniques in Concrete Construction	4	-	3	20	80	100	4
4	16CCT14	Construction Quality and Safety	4	-	3	20	80	100	4
5	16 CCT15X	Elective-I	3	-	3	20	80	100	3
6	16CCTL16	Concrete Laboratory		3	3	20	80	100	2
7	16CCT17	Seminar	-	3	-	100	-	100	1
TOTAL			19	6	18	220	480	700	22

Elective -I	
16CCT151	Advanced Reinforced Concrete Design
16CCT152	Applied Soil Mechanics
16CCT153	Applications of RS and GIS in Construction
16CCT154	Sustainable Materials and Green Building

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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	16CCT21	Design of Sub Structures	4	-	3	20	80	100	4
2	16CCT22	Construction Economics and Finance	4	-	3	20	80	100	4
3	16CCT23	Pre Engineering Construction and Technology	4	-	3	20	80	100	4
4	16CCT24	Construction Contracts and Specification	4	-	3	20	80	100	4
5	16CCT25X	Elective-II	3	-	3	20	80	100	3
6	16CCTL26	Software Applications Laboratory		3	3	20	80	100	2
7	16CCT27	Seminar	-	3	-	100	-	100	1
TOTAL			19	6	18	220	480	700	22

Elective -II	
16CCT251	Advanced Design of Steel Structures
16CCT252	Pavement Design and Construction
16CCT253	Earthquake Resistant Design of Structures
16CCT254	Building Cost and Quality Management

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III 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	16CCT31	Seminar / Presentation on Internship (After 8 weeks from the date of commencement)	-	-	-	25	-	25	20
2	16CCT32	Report on Internship	-	-	-	25	-	25	
3	16CCT33	Evaluation and Viva-Voce of Internship	-	-	-	-	50	50	
4	16CCT34	Evaluation of Project Phase -1	-	-	-	50	-	50	1
TOTAL			-	-	-	100	50	150	21

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M.Tech. - Structural Engineering

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	16CCT41	Restoration and Rehabilitation of Structures	4	-	3	20	80	100	4
2	16CCT42X	Elective-3	3	-	3	20	80	100	3
3	16CCT43	Evaluation of Project phase -2	-	-	-	50	-	50	3
4	16CCT44	Evaluation of Project and Viva-Voce	-	-	3	-	100+100	200	10
TOTAL			-	-	6	90	360	450	20

Elective-III	
16CCT421	Disaster Management Techniques
16CCT422	Construction Demolition and Waste Management
16CCT423	Design of Pre-stressed Concrete Structures
16CCT424	Energy and Buildings

Note:

1. Project Phase-1: 6-week duration shall be carried out between 2nd and 3rd Semester. 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.