

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM
CHOICE BASED CREDIT SYSTEM (CBCS)
SCHEME OF TEACHING AND EXAMINATION 2016-2017
M.Tech. – INFRASTRUCTURE ENGINEERING AND MANAGEMENT

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	16CEM11	Infrastructure Planning	4	-	3	20	80	100	4
2	16CEM12	Construction Materials And Management	4	-	3	20	80	100	4
3	16CEM13	Construction Methods and Equipment	4	-	3	20	80	100	4
4	16CEM14	Repair and Rehabilitation of Structures	4	-	3	20	80	100	4
5	16CEM15X	Elective - 1	3	-	3	20	80	100	3
6	16CEM16	Construction Materials Laboratory And Quality Practice		3	3	20	80	100	2
7	16CEM17	Seminar	-	3	-	100	-	100	1
TOTAL			19	6	18	220	480	700	22

Elective	
16 CEM 151	Advance Foundation Engineering
16 CEM 152	Energy Conservation Techniques in Building Construction
16 CEM 153	Advance Structural Design and Detail
16 CEM 154	Composite and Smart Materials

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II 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	16CEM21	Advance Concrete Technology	4	-	3	20	80	100	4
2	16CEM22	Project Management In Construction	4	-	3	20	80	100	4
3	16CEM23	Disaster Mitigation & Management	4	-	3	20	80	100	4
4	16CEM24	Analysis and Design Of Pavement	4	-	3	20	80	100	4
5	16CEM25X	Elective-2	3	-	3	20	80	100	3
6	16CEM26	Project Management Lab		3	3	20	80	100	2
7	16CEM27	Seminar	-	3	-	100	-	100	1
TOTAL			19	6	18	220	480	700	22

Elective	
16CEM251	Statistics and Numerical Analysis for Construction
16CEM252	Pavement Maintenance & Management Systems
16CEM253	Reuse & Recycle Technology
16CEM254	Urban Hydrology, Storm Drainage And Management

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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	16CEM31	Seminar / Presentation on Internship (After 8 weeks from the date of commencement)	-	-	-	25	-	25	20
2	16 CEM 32	Report on Internship	-	-	-	25	-	25	
3	16 CEM 33	Evaluation and Viva-Voce of Internship	-	-	-	-	50	50	
4	16 CEM 34	Evaluation of 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	16CEM41	Construction Quality And Safety Management	4	-	3	20	80	100	4
2	16CEM42X	Elective-3	3	-	3	20	80	100	3
3	16CEM43	Evaluation of Project phase -2	-	-	-	50	-	50	3
4	16CEM44	Evaluation of Project and Viva-Voce	-	-	-	-	100+100	200	10
TOTAL			-	-	6	90	360	450	20

Elective	
16CEM421	Environmental Impact Assessment and Management
16CEM422	Steel & Composite Construction Technology
16CEM423	Bridge and Grade Separated Structures
16CEM424	Eco-friendly Constructions

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.

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Sl. No.	Board	Courses
1	Civil Engineering	1. Computer Aided Design of Structures
		2. Construction Technology
		3. Environmental Engineering
		4. Geotechnical Engineering
		5. Highway Technology
		6. Infrastructure Construction and Management
		7. Structural Engineering
		8. Transportation Engineering and Management
		9. Transportation Engineering
		10. Industrial Structures
		11. Health Science and water Engineering
		12. Waste Water Management, Health and Safety Engineering
		13. Hydraulics
		14. Geo-infomatics
		15. Water and Land Management
		16. Infrastructure Engineering and Management
		17. Water Resource Management