

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

**M.TECH -INFRASTRUCTURE CONSTRUCTION AND MANAGEMENT (CIM)**

**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	16CIM11	Pre Stressed Concrete	4	-	3	20	80	100	4
2	16CIM12	Construction Equipments	4	-	3	20	80	100	4
3	16CIM13	Advances in Concrete Technology	4	-	3	20	80	100	4
4	16CIM14	Contract Management	4	-	3	20	80	100	4
5	16CIM15X	Elective-1	3	-	3	20	80	100	3
6	16CIM L16	Concrete Technology Laboratory - 1		3	3	20	80	100	2
7	16CIM17	Seminar	-	3	-	100	-	100	1
<b>TOTAL</b>			<b>19</b>	<b>6</b>	<b>18</b>	<b>220</b>	<b>480</b>	<b>700</b>	<b>22</b>

<b>Elective</b>	
16 CIM 151 / 16 CHT 151	Road Projects
16 CIM 152	Advanced Design of Concrete Structures
16 CIM 153	Introduction to Seismic Resistant Design
16 CIM 154 / 16 CHT 14	Highway Construction and Maintenance

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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	16CIM21	Special Concrete	4	-	3	20	80	100	4
2	16CIM22	Construction Costing and Material Management	4	-	3	20	80	100	4
3	16CIM23	Project Planning and Construction Management	4	-	3	20	80	100	4
4	16CIM24	Pre-Engineered Structures	4	-	3	20	80	100	4
5	16CIM25X	Elective - 2	3	-	3	20	80	100	3
6	16 CIM L26	Concrete Technology Laboratory - 2		3	3	20	80	100	2
7	16 CIM 27	Seminar	-	3	-	100	-	100	1
<b>TOTAL</b>			<b>19</b>	<b>6</b>	<b>18</b>	<b>220</b>	<b>480</b>	<b>700</b>	<b>22</b>

<b>Elective</b>	
16 CIM 251	Statistics & Numerical Analysis in Construction
16 CIM 252 / 16 CHT 252	Bridge and Grade Separated Structures
16 CIM 253 / 16 CHT 253	Ground Improvement Techniques
16 CIM 254	Building Services and Maintenance

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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	16 CIM 31	Seminar / Presentation on Internship (After 8 weeks from the date of commencement)	-	-	-	25	-	25	20
2	16 CIM 32	Report on Internship	-	-	-	25	-	25	
3	16 CIM 33	Evaluation and Viva-Voce of Internship	-	-	-	-	50	50	
4	16 CIM 34	Evaluation of Project phase -1	-	-	-	50	-	50	1
<b>TOTAL</b>			-	-	-	<b>100</b>	<b>50</b>	<b>150</b>	<b>21</b>

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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	16 CIM 41	Construction Quality & Safety Management	4	-	3	20	80	100	4
2	16 CIM 42	Elective-3	3	-	3	20	80	100	3
3	16 CIM 43	Evaluation of Project phase -2	-	-	-	50	-	50	3
4	16 CIM 44	Evaluation of Project and Viva-Voce	-	-	-	-	100+100	200	10
<b>TOTAL</b>			-	-	<b>6</b>	<b>90</b>	<b>360</b>	<b>450</b>	<b>20</b>

<b>Elective</b>	
16 CIM 421	Foundation Technology
16 CIM 422	Maintenance and Rehabilitation of Structures
16 CIM 423	Construction Demolition and Waste Management
16 CIM 424	Sustainable Constructions

**Note:**

- 1. Project Phase-1:** 6-week duration shall be carried out between 2<sup>nd</sup> and 3<sup>rd</sup> 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 4<sup>th</sup> 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 4<sup>th</sup> 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.