

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

**M.TECH. HIGHWAY TECHNOLOGY**

**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	16CHT11	Applied Statistics for Highway Engineers	4	-	3	20	80	100	4
2	16 CHT 12	Highway Materials	4	-	3	20	80	100	4
3	16 CHT 13	Pavement Design and Analysis	4	-	3	20	80	100	4
4	16 CHT 14	Highway Construction and Maintenance	4	-	3	20	80	100	4
5	16 CHT 15X	Elective – I	3	-	3	20	80	100	3
6	16 CHT L16	Highway Materials Lab - 1		3	3	20	80	100	2
7	16 CHT 17	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 CHT 151	Road Projects
16 CHT 152	Soil Mechanics for Highway Engineers
16 CHT 153	Planning & Design of Low volume Roads
16 CHT 154	Urban Public Transport

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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	16CHT21	Pavement Evaluation and Management	4	-	3	20	80	100	4
2	16CHT22	Traffic Engineering	4	-	3	20	80	100	4
3	16 CHT 23	Highway Planning and economic Analysis	4	-	3	20	80	100	4
4	16 CHT 24	Road Construction Planning & Management	4	-	3	20	80	100	4
5	16 CHT 25X	Elective-2	3	-	3	20	80	100	3
6	16CHTL26	Highway Materials Lab - II		3	3	20	80	100	2
7	16 CHT 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 CHT 251	Road Construction equipment
16 CHT 252	Bridge and Grade Separated Structures
16 CHT 253	Ground Improvement Techniques
16 CHT 254	Road Safety Engineering

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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 CHT 31	Seminar / Presentation on Internship (After 8 weeks from the date of commencement)	-	-	-	25	-	25	20
2	16 CHT 32	Report on Internship	-	-	-	25	-	25	
3	16 CHT 33	Evaluation and Viva-Voce of Internship	-	-	-	-	50	50	
4	16 CHT 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 CHT 41	Special Problems in Road Construction	4	-	3	20	80	100	4
2	16 CHT 42	Elective-3	3	-	3	20	80	100	3
3	16 CHT 43	Evaluation of Project phase -2	-	-	-	50	-	50	3
4	16 CHT 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 CHT 421	Transportation Planning
16 CHT 422	Pavement Management System
16 CHT 423	Construction Quality & Safety Management
16 CHT 424	Airport Planning & Design

**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.