

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

M.Tech.: Transportation Engineering and Management (CTM)

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	16CTM11	APPLIED STATISTICS	4	-	3	20	80	100	4
2	16CTM12	TRAFFIC ENGINEERING - I	4	-	3	20	80	100	4
3	16CTM13	TRANSPORT PLANNING	4	-	3	20	80	100	4
4	16CTM14	PAVEMENT MATERIAL CHARACTERIZATION	4	-	3	20	80	100	4
5	16CTM15X	ELECTIVE-1	3	-	3	20	80	100	3
6	16CTML16	ADVANCED PAVEMENT MATERIALS LABORATORY		3	3	20	80	100	2
7	16CTM17	SEMINAR -I	-	3	-	100	-	100	1
TOTAL			19	6	18	220	480	700	22

Elective -1	
16CTM151	URBAN PUBLIC TRANSPORT
16CTM152	TRANSPORTATION STRUCTURES
16CTM153	APPLIED SOIL MECHANICS
16CTM154	REMOTE SENSING AND GIS IN TRANSPORT PLANNING

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II SEMESTER

Sl. No	Subject Code	Title	Teaching Hours /Week		Examination				Credit
			Theor y	Practical/Fie ld Work/ Assignment	Duration	I.A. Marks	Theory/ Practical Marks	Total Marks	
1	16CTM21	PAVEMENT ANALYSIS AND DESIGN	4	-	3	20	80	100	4
2	16CTM22	TRAFFIC ENGINEERING - II	4	-	3	20	80	100	4
3	16CTM23	PAVEMENT CONSTRUCTION MAINTENANCE AND MANAGEMENT	4	-	3	20	80	100	4
4	16CTM24	TRANSPORTATION ECONOMICS	4	-	3	20	80	100	4
5	16 CTM 25X	ELECTIVE-2	3	-	3	20	80	100	3
6	16CTML26	TRANSPORTATION ENGINEERING LAB		3	3	20	80	100	2
7	16CTM27	SEMINAR - 2	-	3	-	100	-	100	1
TOTAL			19	6	18	220	480	700	22

Elective -2	
16CTM251	ROAD SAFETY AND MANAGEMENT
16CTM252	PAVEMENT MANAGEMENT SYSTEM
16CTM253	THEORIES OF TRAFFIC FLOW
16CTM254	TRANSPORTATION SYSTEMS

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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	16CTM31	SEMINAR / PRESENTATION ON INTERNSHIP (AFTER 8 WEEKS FROM THE DATE OF COMMENCEMENT)	-	-	-	25	-	25	20
2	16CTM32	REPORT ON INTERNSHIP	-	-	-	50	-	50	
3	16CTM33	EVALUATION AND VIVA-VOCE OF INTERNSHIP	-	-	-	-	75	75	
4	16CTM34	EVALUATION OF PROJECT PHASE -1	-	-	-	25	-	25	1
TOTAL			-	-	-	100	75	175	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	16CTM41	TRANSPORTATION INFRASTRUCTURE DESIGN	4	-	3	20	80	100	4
2	16CTM42X	ELECTIVE - 3	3	-	3	20	80	100	3
3	16CTM43	EVALUATION OF PROJECT PHASE -2	-	-	-	50	-	50	3
4	16CTM44	EVALUATION OF PROJECT AND VIVA-VOCE	-	-	3	-	100+100	200	10
TOTAL			-	-	6	60	75	450	20

Elective -3	
16CTM421	RURAL ROADS
16CTM422	ENVIRONMENTAL IMPACT ASSESSMENT OF TRANSPORTATION PROJECTS
16CTM423	INFRASTRUCTURE MANAGEMENT
16CTM424	INTELLIGENT TRANSPORTATION SYSTEMS

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 be 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.