

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
Scheme of Teaching and Examination – 2018 - 19
M.Tech Transportation Engineering and Management (CTM)
Outcome Based Education(OBE) and Choice Based Credit System (CBCS)

I SEMESTER										
Sl. No	Course	Course Code	Course Title	Teaching Hours /Week		Examination			Credits	
				Theory	Practical/ Field work/ Assignment	Duration in hours	CIE Marks	SEE Marks		Total Marks
1	PCC	18CTM11	Applied Statistics	04	--	03	40	60	100	4
2	PCC	18 CTM12	Traffic Engineering - I	04	--	03	40	60	100	4
3	PCC	18 CTM13	Transport Planning	04	--	03	40	60	100	4
4	PCC	18 CTM14	Pavement Material Characterization	04	--	03	40	60	100	4
5	PCC	18 CTM15	Applied Soil Mechanics	04	--	03	40	60	100	4
6	PCC	18 CTML16	Pavement Materials Laboratory	-	04	03	40	60	100	2
7	PCC	18RMI17	Research Methodology and IPR	02	--	03	40	60	100	2
TOTAL				22	04	21	280	420	700	24
Note: PCC: Professional core, PEC: Professional Elective.										
Internship: All the students have to undergo mandatory internship of 6 weeks during the vacation of I and II semesters and /or II and III semesters. A University examination shall be conducted during III semester and the prescribed credit shall be counted for the same semester. Internship shall be considered as a head of passing and shall be considered for the award of degree. Those, who do not take-up/complete the internship shall be declared as failed and have to complete during the subsequent University examination after satisfying the internship requirements.										

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II SEMESTER										
Sl. No	Course	Course Code	Course Title	Teaching Hours /Week		Examination			Credits	
				Theory	Practical/ Field work/ Assignment	Duration in hours	CIE Marks	SEE Marks		Total Marks
1	PCC	18CTM21	Pavement Analysis and Design	04	--	03	40	60	100	4
2	PCC	18CTM22	Traffic Engineering - II	04	--	03	40	60	100	4
3	PCC	18CTM23	Pavement Construction and Equipments	04	--	03	40	60	100	4
4	PEC	18CTM24X	Professional elective 1	04	--	03	40	60	100	4
5	PEC	18CTM25X	Professional elective 2	04	--	03	40	60	100	4
6	PCC	18CTML26	Transportation Engineering Lab	--	04	03	40	60	100	2
7	PCC	18CTM27	Technical Seminar	--	02	--	100	--	100	2
TOTAL				20	06	18	340	360	700	24
Note: PCC: Professional core, PEC: Professional Elective.										
Professional Elective 1				Professional Elective 2						
Course Code under 18XXX24X		Course title		Course Code under 18XXX25X		Course title				
18CTM241		Transportation Infrastructure Design		18CTM251		Pavement Management System				
18CTM242		Theories Of Traffic Flow		18CTM252		Transportation Structures				
18CTM243		Transportation Systems		18CTM253		Urban Public Transport				
Note:										
<p>1. Technical Seminar: CIE marks shall be awarded by a committee comprising of HoD as Chairman, Guide/co-guide, if any, and a senior faculty of the department. Participation in the seminar by all postgraduate students of the same and other semesters of the programme shall be mandatory. The CIE marks awarded for Technical Seminar, shall be based on the evaluation of Seminar Report, Presentation skill and Question and Answer session in the ratio 50:25:25.</p> <p>2. Internship: All the students shall have to undergo mandatory internship of 6 weeks during the vacation of I and II semesters and /or II and III semesters. A University examination shall be conducted during III semester and the prescribed credit shall be counted in the same semester. Internship shall be considered as a head of passing and shall be considered for the award of degree. Those, who do not take-up/complete the internship shall be declared as failed and have to complete during the subsequent University examination after satisfying the internship requirements.</p>										

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III SEMESTER										
Sl. No	Course	Course Code	Course Title	Teaching Hours /Week		Examination				Credits
				Theory	Practical/ Field work/ Assignment	Duration in hours	CIE Marks	SEE Marks	Total Marks	
1	PCC	18CTM31	Transportation Economics	04	--	03	40	60	100	4
2	PEC	18CTM32X	Professional elective 3	04	--	03	40	60	100	4
3	PEC	18CTM33X	Professional elective 4	04	--	03	40	60	100	4
4	Project	18CTM34	Evaluation of Project phase -1	--	02	--	100	--	100	2
5	Internship	18CTMI35	Internship	(Completed during the intervening vacation of I and II semesters and /or II and III semesters.)		03	40	60	100	6
TOTAL				12	02	12	260	240	500	20
Note: PCC: Professional core, PEC: Professional Elective.										
Professional elective 3					Professional elective 4					
Course Code under 18XXX32X		Course title			Course Code under 18XXX32X		Course title			
18CTM321		Road Safety and Management			18CTM331		Rural Roads			
18CTM322		Intelligent Transportation Systems			18CTM332		Environmental Impact Assessment of Transportation Projects			
18CTM323		Infrastructure Management			18CTM333		Remote Sensing and GIS in Transport Planning			
Note:										
<p>1. Project Phase-1: Students in consultation with the guide/co-guide if any, shall pursue literature survey and complete the preliminary requirements of selected Project work. Each student shall prepare relevant introductory project document, and present a seminar. CIE marks shall be awarded by a committee comprising of HoD as Chairman, Guide/co-guide if any, and a senior faculty of the department. The CIE marks awarded for project work phase -1, shall be based on the evaluation of Project Report, Project Presentation skill and Question and Answer session in the ratio 50:25:25.</p> <p>SEE (University examination) shall be as per the University norms.</p> <p>2. Internship: Those, who have not pursued /completed the internship shall be declared as failed and have to complete during subsequent University examinations after satisfying the internship requirements.</p> <p>Internship SEE (University examination) shall be as per the University norms.</p>										

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IV SEMESTER										
Sl. No	Course	Course Code	Course Title	Teaching Hours /Week		Examination				Credits
				Theory	Practical/ Field work/ Assignment	Duration in hours	CIE Marks	SEE Marks Viva voce	Total Marks	
1	Project	18CTM41	Project work phase -2	--	04	03	40	60	100	20
TOTAL				--	04	03	40	60	100	20
Note: 1. Project Phase-2: CIE marks shall be awarded by a committee comprising of HoD as Chairman, Guide/co-guide, if any, and a Senior faculty of the department. The CIE marks awarded for project work phase -2, shall be based on the evaluation of Project Report subjected to plagiarism check, Project Presentation skill and Question and Answer session in the ratio 50:25:25. SEE shall be at the end of IV semester. Project work evaluation and Viva-Voce examination (SEE), after satisfying the plagiarism check, shall be as per the University norms.										

