

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
Scheme of Teaching and Examination - 2018-19
M. Tech – Infrastructure Construction and Management (CIM)
Choice Based Credit System (CBCS)

FIRST 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	18CIM11	Statistics & Numerical Analysis in Construction	04	--	03	40	60	100	4
2	PCC	18CIM12	Advances in Concrete Technology	04	--	03	40	60	100	4
3	PCC	18CIM13	Contract Management	04	--	03	40	60	100	4
4	PCC	18CIM14 / 18CHT14	Highway Construction and Maintenance	04	--	03	40	60	100	4
5	PCC	18CIM15	Advances in Pre-Stressed Concrete	04	--	03	40	60	100	4
6	PCC	18CIML16	Concrete Technology Laboratory - 1	-	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.

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 will be conducted during III semester and prescribed credit shall be included in the III 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 subsequent University examination after satisfy the internship requirements.

Note: "Question Paper Pattern"

- TEN** questions, such that **Two** questions are set from EACH MODULE. **Each question will carry 20 marks.**
- Final SEE Examinations conducted for 100 marks and it will converted to equivalent 60 marks.

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SECOND 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	18CIM21	Special Concrete	04	--	03	40	60	100	4
2	PCC	18CIM22	Construction Project Management.	04	--	03	40	60	100	4
3	PCC	18CIM23	Pre-fabricated Structures	04	--	03	40	60	100	4
4	PEC	18CIM24X	Professional Elective 2	04	--	03	40	60	100	4
5	PEC	18CIM25X	Professional Elective 3	04	--	03	40	60	100	4
6	PCC	18CIML26	Concrete Technology Laboratory - 2	--	04	03	40	60	100	2
7	PCC	18CIM27	Technical Seminar	--	02	--	100	--	100	2
TOTAL				22	06	20	340	360	700	24

Note: PCC: Professional Core, PEC: Professional Elective

Professional Elective 2		Professional Elective 3	
Course Code under 18CIM24X	Course title	Course Code under 18CIM25X	Course title
18CIM241	Construction Equipment and Safety Management	18CIM251 / 18CHT251	Planning and design of Rural Roads
18CIM242	Bridge and Grade Separated Structures	18CIM252 / 18CHT252	Pavement Management System
18CIM243/ 18CHT243	Ground Improvement Techniques	18CIM253	Structural Masonry
18CIM244/ 18CHT244	Soil Mechanics for Engineers	18CIM254	Introduction to Seismic Resistant Design

Note:

1. Technical Seminar: CIE marks shall be awarded by a committee comprising of HoD as Chairman, Guide/co-guide in any and a senior faculty of the department. Participation in 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.

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 will be conducted during III semester and prescribed credit shall be included in the III 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 subsequent University examination after satisfy the internship requirements.

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THIRD 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	18CIM31	Infrastructure Construction Methods	04	--	03	40	60	100	4
2	PEC	18CIM32X	Professional Elective 3	04	--	03	40	60	100	4
3	PEC	18CIM33X	Professional Elective 4	04	--	03	40	60	100	4
4	Proj	18CIM34	Evaluation of Project phase - 1	--	02	--	100	--	100	2
5	INT	18CIMI35	Internship	(Completed during the intervening vacation of I and II semesters and /or II and III semesters.)		03	40	60	100	6
TOTAL				14	02	14	260	240	500	20

Note: PCC: Professional Core, PEC: Professional Elective

Professional Elective 3		Professional Elective 4	
Course Code under 18CIM32X	Course title	Course Code under 18CIM33X	Course title
18CIM321	Foundation Technology	18CIM331	Construction Quality and Material Management
18CIM322 / 18CHT322	Maintenance and Rehabilitation of Structures	18CIM332	Building Services and Maintenance
18CIM323 / 18CHT323	Construction and Demolition Waste Management	18CIM333/ 18CHT333	Airport Planning & Design
18CIM324	Sustainable Constructions	18CIM334	Advanced Design of Concrete Structures

Note:

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 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.

SEE (University examination) shall be as per the University norms.

2. Internship: Those, who have not pursued /completed the internship shall be declared as failed and have to complete during subsequent University examinations after satisfy the internship requirements.

Internship SEE (University examination) shall be as per the University norms.

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FOURTH 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	Proj	18CIM41	Project Work Phase - 2	--	04	03	40	60	100	20
TOTAL				--	04	03	40	60	100	20

Note: Proj: Project

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.

