

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI

Scheme of Teaching and Examination 2018-2019

M.Tech. – INFRASTRUCTURE ENGINEERING AND MANAGEMENT

Out Come Based Education (OBE) and Choice Based Credit System (CBCS)

I SEMESTER

Sl. No	Course	Course Code	Course Title	Teaching Hours /Week		Examination				Credit
				Theory	Practical/ Field Work/ Assignment	Duration	CIE Marks	SEE Marks	Total Marks	
1	PCC	18CEM11	Applied Statistics	04	--	03	40	60	100	4
2	PCC	18CEM12	Infrastructure Planning	04	--	03	40	60	100	4
3	PCC	18CEM13	Construction Materials And Management	04	--	03	40	60	100	4
4	PCC	18CEM14	Construction Equipments And Management	04	--	03	40	60	100	4
5	PCC	18CEM15	Prefabrication and Construction Technology	04	--	03	40	60	100	4
6	PCC	18CEML16	Construction Materials Laboratory	--	04	03	40	60	100	2
7	PCC	18CEM17	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 6weeks during the vacation of I and II semester and/or II and III semesters. A university examination shall be conducted during III semester and the prescribed credit shall be conducted 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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Sl. No	Course	Course Code	Course Title	Teaching Hours /Week		Examination				Credit
				Theory	Practical/ Field Work/ Assignment	Duration	CIE Marks	SEE Marks	Total Marks	
1	PCC	18CEM21	Project Management In Construction	04	-	3	40	60	100	4
2	PCC	18CEM22	Advance Concrete Technology	04	-	3	40	60	100	4
3	PCC	18CEM23	Personal and Financial Management	04	-	3	40	60	100	4
4	PEC	18CEM24X	Professional Elective-1	04	-	3	40	60	100	4
5	PEC	18CEM25X	Professional Elective-2	04	-	3	40	60	100	4
6	PCC	18CEML26	Project Management Lab	--	04	3	40	60	100	2
7	PCC	18CEM27	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 18CEM24X	Course Title	Course Code Under 18CEM25X	Course Title
18CEM241	Smart Cities	18CEM 251	Analysis and Design of Pavement
18CEM242	Pavement Maintenance & Management Systems	18CEM 252	Energy Conservation Techniques in Building Construction
18CEM243	Disaster Mitigation & Management	18CEM 253	Advance Structural Design and Detail
18CEM244	Urban Hydrology, Storm Drainage And Management	18CEM 254	Composite and Smart Materials

Note:

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 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.

2. Internship: All The students have to undergo mandatory internship of 6weeks during the vacation of I and II semester and/or II and III semesters. A university examination shall be conducted during III semester and the prescribed credit shall be conducted 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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III SEMESTER

Sl. No	Course	Course Code	Course Title	Teaching Hours /Week		Examination				Credit
				Theory	Practical/ Field Work/ Assignment	Duration	CIE Marks	SEE Marks	Total Marks	
1	PCC	18CEM31	Construction Quality And Safety Management	04	-	03	40	60	100	4
2	PCC	18CEM32	Professional Practice	04	-	03	40	60	100	4
3	PEC	18CEM33X	Professional Elective 3	04	-	03	40	60	100	4
4	Project	18CEM34	Evaluation of Project Phase-1	--	02	--	100	--	100	2
5	Internship	18CEMI35	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-1

Course Code Under 18CEM33X	Course Title
16CEM331	Resource Management and Control in Construction
16CEM332	Steel & Composite Construction Technology
16CEM333	Bridge and Grade Separated Structures
16CEM334	Eco-friendly Constructions

Note:

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 selection in the ratio 50:25:25.

SEE(University Examination) Shall be as per the university norms.

Internship: Those, who have not Perused / completed the internship, shall be declared as failed and have to complete during subsequent University examinations after satisfying the internship requirements. **Internship SEE(University Examination) Shall be as per the university norms.**

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Sl. No	Course	Course Code	Course Title	Teaching Hours /Week		Examination				Credit
				Theory	Practical/ Field Work/ Assignment	Duration	CIE Marks	SEE Marks	Total Marks	
4	Project	18CEM41	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.