

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
Scheme of Teaching and Examination – 2018 - 19
M.Tech Programme (CCT-Construction Technology)
Outcome Based Education(OBE) and Choice Based Credit System (CBCS)

I semester										
No	Course	Course Code	Course Title	Teaching Hours /Week		Examination				Credits
				Theory	Practical/Field Work/ Assignment	Duration (Hours)	CIE Marks	SEE Marks	Total Marks	
1	PCC	18CCT11	Mathematics in Construction Technology	4	--	3	40	60	100	4
2	PCC	18CCT12	Construction Project and Management	4	--	3	40	60	100	4
3	PCC	18CCT13	Construction Quality and Safety	4	--	3	40	60	100	4
4	PCC	18CCT14	Advanced Construction Materials and Green Buildings	4	--	3	40	60	100	4
5	PCC	18CCT15	Mechanization in Construction	4	--	3	40	60	100	4
6	PCC	18CCTL16	Advanced Material Testing Lab	--	4 (3 hrs Lab + 1 hr Instruction)	3	40	60	100	2
7	PCC	18RMI17	Research Methodology and IPR	2	--	3	40	60	100	2
Total				22	04	21	280	420	700	24
Note: PCC: Professional Core, PEC: Professional Elective										

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II semester										
No	Course	Course Code	Course Title	Teaching Hours /Week		Examination				Credits
				Theory	Practical/Field Work/ Assignment	Duration(Hours)	CIE Marks	SEE Marks	Total Marks	
1	PCC	18CCT21	Construction Economics and Finance	4	--	3	40	60	100	4
2	PCC	18CCT22	Pre Engineered Construction Technology	4	--	3	40	60	100	4
3	PCC	18CCT23	Design concepts of sub-structures	4	--	3	40	60	100	4
4	PEC	18CCT24X	Professional elective 1	4	--	3	40	60	100	4
5	PEC	18CCT25X	Professional elective 2	4	--	3	40	60	100	4
6	PCC	18CCTL26	Software Application Lab	--	4 (3 hrs Lab + 1 hr Instruction)	3	40	60	100	2
7	PCC	18CCT27	Technical Seminar	--	2	--	100	--	100	2
Total				20	06	18	340	360	700	24

Note: PCC: Professional core, PEC: Professional Elective

Professional elective I		Professional elective II	
Course title	Course Code under 18CCT24X	Course title	Course Code under 18CCT25X
1. Building services and Maintenance	18CCT241	1. Building Cost and Quality Management	18CCT251
2. Applications of Remote Sensing and GIS in Construction	18CCT242	2. Pavement Design and Construction	18CCT252
3. Advanced Reinforced Concrete Design	18CCT243	3. Earthquake Resistant Design of Structures	18CCT253

Note: 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.

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III semester										
No	Course	Course Code	Course Title	Teaching Hours /Week		Examination				Credits
				Theory	Practical/Field Work/ Assignment	Duration (Hours)	CIE Marks	SEE Marks	Total Marks	
1	PCC	18CCT31	Construction Contracts, Specifications and Estimation	4	--	3	40	60	100	4
2	PEC	18CCT32X	Professional elective III	4	--	3	40	60	100	4
3	PEC	18CCT33X	Professional elective IV	4	--	3	40	60	100	4
4	Project	18CCT34	Project phase I	--	2	--	100	--	100	2
5	INT	18CCT135	Internship	(Completed during the intervening vacation of I and II semesters and /or II and III semesters.)		3	40	60	100	6
Total				12	02	12	260	240	500	20
Note: PCC: Professional core, PEC: Professional Elective										
Professional elective III						Professional elective IV				
Course title				Course Code under 18CCT32X		Course title			Course Code under 18CCT33X	
1. Restoration and Rehabilitation of Structures				18CCT321		1. Energy and Buildings			18CCT331	
2. Construction Demolition and Waste Management				18CCT322		2. Disaster Management Techniques			18CCT332	
3. Design of Pre-stressed Concrete Structures				18CCT323		3. Advanced Design of Steel Structures			18CCT333	
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. SEE (University examination) shall be as per the University norms.</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. Internship SEE (University examination) shall be as per the University norms.</p>										

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IV semester

No	Course	Course Code	Course Title	Teaching Hours /Week		Examination			Credits	
				Theory	Practical/Field Work/ Assignment	Duration (Hr)	CIE Marks	SEE Marks		Total Marks
1	Project	18CCT41	Project work phase -2	-	4	3	40	60	100	20
Total				-	4	3	40	60	100	20

Note:

1. Project Work 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.