VISVESVARAYATECHNOLOGICALUNIVERSITY

BELAGAVI

SchemeofTeachingandExaminations(2026)

M.Tech., in Civil Engineering(Specialization in Computer Aided Structural Engineering) Choice-BasedCreditSystem(CBCS)andOutcome-BasedEducation(OBE)

Specializationin–(Computer AidedStructuralEngineering)

II SEMESTER

Sl.No	Course	CourseCode	CourseTitle	Teaching&LearningScheme					Examination				Credits
				CI		LI	TW&SL	Total Hours	Duration in hours	CIEMarks	SEEMarks	Total Marks	
				L	T	P							
1	IPCC	1MCAS201	Computer AidedStructuralStabilityAnalysis	42	0	28	50	120	03	50	50	100	4
2	PCC	1MCAS202	FreeandForcedVibrationsofStructuralElements	42	0	0	48	90	03	50	50	100	3
3	PCC	1MCAS203	Soft Computing Applications in Structural Engineering	42	0	0	48	90	03	50	50	100	3
4	PCC	1MCCS204 / 1MCSE204 / 1MCAS204	ContinuumMechanics	42	0	0	48	90	03	50	50	100	3
5	PEC	1MCAS205X	ProfessionalElective–III	42	0	0	48	90	03	50	50	100	3
6	PEC	1MCAS206X	ProfessionalElective–IV	42	0	0	48	90	03	50	50	100	3
7	PCCL	1MCASL207	SoftComputingTechniquesinStructural Engineering Laboratory	0	0	28	02	30	03	50	50	100	1
8	PCC	1MCASS208	Minor Project/Skill DevelopmentProject	0	0	0	60	60	03	50	50	100	2
									Total	**400**	**400**	**800**	**22**

ProfessionalElectiveCourses(PECs)			
PEC-III		PEC-IV	
Code	TitleoftheCourse	Code	TitleoftheCourse
1MCCS205A / 1MCSE205A / 1MCAS205A	FiniteElementMethodsinStructuralAnalysis	1MCSE206E/1MCAS206A	ComputationalStructuralMechanics
1MCAS205B	Computer-AidedStructuralLoadAnalysisandCodalApplications	1MCAS206B/1MCSE206A	ConstructionMaterialsandtheirProperties
1MCSE205B/ 1MCAS205C	AdvancedStructuralAnalysis(NonlinearandStability)	1MCCS206A / 1MCSE206B / 1MCAS206C	Advanced Construction Material Characterization Techniques
1MCAS205D	Computer-AidedAnalysisandDesignofPlatesand Shells	1MCCS206C / 1MCSE206C / 1MCAS206D	DesignofPrecastandCompositeStructures
1MCAS205E	Advanced DesignofStructuralElements	1MCCS206E / 1MCAS206E	Geotechnical Aspects of Foundations and Earth Retaining Structures
1MCCS205F / 1MCSE205F / 1MCAS205F	StructuralReliabilityAnalysisandDesign	1MCCS206F / 1MCSE206F / 1MCAS206F	FiberReinforcedPolymersandMechanicsof Composite Materials