

ProgramName: B.Tech Integrated CivilEngineeringwithComputerApplication																			
(Semester:First)																			
Coursecode	CourseTitle	Type	TeachingScheme			EvaluationScheme(Marks)						MinimumPassing(Marks)						Credit	Remarks
						Internal			External		Total	Internal			External		Total		
			L	T	P	CA	MSE	TW	ESE	PR		CA	MSE	TW	ESE	PR			
22IUCC0101B	Mathematics-I	Theory	3	1	-	20	20	-	60	-	100	-	-	-	24	-	40	4	
22IUCC0102B	Physics-I	Theory	3	1	-	20	20	-	60	-	100	-	-	-	24	-	40	4	
22IUCC0103B	Chemistry-I	Theory	3	1	-	20	20	-	60	-	100	-	-	-	24	-	40	4	
22IUCC0104H	English-I	Theory	3	-	-	20	20	-	60	-	100	-	-	-	24	-	40	3	
22IUCC0105T	Fundamentalsof ComputerSystem	Theory	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Audit	
22IUCC0106T	EngineeringGraphi cs	Theory	3	-	-	20	20	-	60	-	100	-	-	-	24	-	40	3	
22IUCC0102L	Physics-ILab	Practical	-	-	2	-	-	50	-	-	50	-	-	20	-	-	20	1	
22IUCC0103L	Chemistry-ILab	Practical	-	-	2	-	-	50	-	-	50	-	-	20	-	-	20	1	
22IUCC0104L	LanguageLab-I	Practical	-	-	2	-	-	50	-	-	50	-	-	20	-	-	20	1	
22IUCC0105L	Fundamentals ofComputer SystemLab	Practical	-	-	2	-	-	50	-	-	50	-	-	20	-	-	20	1	
22IUCC0106L	EngineeringGraphic sLab	Practical	-	-	4	-	-	100	-	-	100	-	-	40	-	-	40	2	
Total			17	3	12	100	100	300	300	0	800	0	0	120	120	0	320	24	
(Semester:Second)																			
Coursecode	CourseTitle	Type	TeachingScheme			EvaluationScheme(Marks)						MinimumPassing(Marks)						Credit	Remarks
						Internal			External		Total	Internal			External		Total		
			L	T	P	CA	MSE	TW	ESE	PR		CA	MSE	TW	ESE	PR			
22IUCC0201B	Mathematics-II	Theory	3	1	-	20	20	-	60	-	100	-	-	-	24	-	40	4	
22IUCC0202B	Physics-II	Theory	3	1	-	20	20	-	60	-	100	-	-	-	24	-	40	4	
22IUCC0203B	Chemistry-II	Theory	3	1	-	20	20	-	60	-	100	-	-	-	24	-	40	4	
22IUCC0204H	UniversalHuman Value	Theory	2	-	-	-	-	-	50	-	50	-	-	-	20	-	20	2	
22IUCC0205T	Computer Workshop	Theory	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Audit	
22IUCC0202L	Physics-IILab	Practical	-	-	2	-	-	50	-	-	50	-	-	20	-	-	20	1	
22IUCC0203L	Chemistry-IILab	Practical	-	-	2	-	-	50	-	-	50	-	-	20	-	-	20	1	
22IUCC0204L	UniversalHuman ValueLab	Practical	-	-	2	-	-	50	-	-	50	-	-	20	-	-	20	1	
22IUCC0205L	Computer WorkshopLab	Practical	-	-	2	-	-	50	-	-	50	-	-	20	-	-	20	1	
22IUCC0206L	WorkshopPracticesL ab	Practical	-	-	4	-	-	100	-	-	100	-	-	40	-	-	40	2	
Total			13	3	12	60	60	300	230	0	650	0	0	120	92	0	260	20	

Abbreviations:

L- Lecture, T-Tutorial, P-Practical, CA- Continuous Assessment, MSE- Mid Semester Examination, ESE- End Semester Examination, PR-Practical, TW-TermWork.

Semester:-Third																			
CourseCode	Course Title	Type	TeachingScheme			EvaluationScheme					Total	MinimumPassingMarks					Total	Credits	Remarks
						Internal			External			Internal			External				
			L	T	P	CA	MSE	TW	ESE	PR		CA	MSE	TW	ESE	PR			
22IUCC0301B	Mathematics -III	Theory	3	1	-	20	20	-	60	-	100	-	-	-	24	-	40	4	
ENV-C	EnvironmentalStudies	Theory	2	-	-	20	20	-	60	-	100	-	-	-	24	-	40	Audit	
22IUCE0303T	CivilEngineeringMaterials	Theory	3	-	-	20	20	-	60	-	100	-	-	-	24	-	40	3	
22IUCE0304T	Surveying- I	Theory	3	-	-	20	20	-	60	-	100	-	-	-	24	-	40	3	
22IUCE0305T	IntroductiontoSoftware's	Theory	2	-	-	20	20	-	60	-	100	-	-	-	24	-	40	2	
22IUCE0306H	EffectiveCommunicationandSoftSkill	Theory	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Audit	
22IUCE0303L	CivilEngineeringMaterialsLab	Practical	-	-	2	-	-	30	-	20	50	-	-	12	-	8	20	1	
22IUCE0304L	Surveying- I Lab	Practical	-	-	4	-	-	60	-	40	100	-	-	24	-	16	40	2	
22IUCE0305T	IntroductiontoSoftwareLab	Practical	-	-	2	-	-	50	-	-	50	-	-	20	-	-	20	1	
22IUCE0306L	EffectiveCommunicationandSoftSkillLab	Practical	-	-	2	-	-	50	-	-	50	-	-	20	-	-	20	Audit	
Total			14	1	10	100	100	190	300	60	750	0	0	76	-	24	300	16	

Semester:- Fourth																			
CourseCode	Course Title	Type	TeachingScheme			EvaluationScheme					Total	MinimumPassingMarks					Total	Credits	Remarks
						Internal			External			Internal			External				
			L	T	P	CA	MSE	TW	ESE	PR		CA	MSE	TW	ESE	PR			
22IUCC0401B	Mathematics- IV	Theory	3	1	-	20	20	-	60	-	100	-	-	-	24	-	40	4	
22IUCE0402T	BuildingConstructions	Theory	3	-	-	20	20	-	60	-	100	-	-	-	24	-	40	3	
22IUCE0403T	EngineeringGeology	Theory	3	-	-	20	20	-	60	-	100	-	-	-	24	-	40	3	
22IUCE0404T	Surveying-II	Theory	3	-	-	20	20	-	60	-	100	-	-	-	24	-	40	3	
22IUCE0405T	EngineeringMechanics	Theory	3	-	-	20	20	-	60	-	100	-	-	-	24	-	40	3	
22IUCC0406B	IntroductiontoBiology	Theory	3	-	-	20	20	-	60	-	100	-	-	-	24	-	40	3	
22IUCE0402L	BuildingConstructionsLab	Practical	-	-	2	-	-	30	-	20	50	-	-	12	-	8	20	1	
22IUCE0404L	Surveying-II Lab	Practical	-	-	4	-	-	60	-	40	100	-	-	24	-	16	40	2	
22IUCE0405L	EngineeringMechanicsLab	Practical	-	-	2	-	-	30	-	20	50	-	-	12	-	8	20	1	
Total			18	1	8	120	120	120	360	80	800	0	0	48	144	32	320	23	

Semester:- Fifth																			
CourseCode	Course Title	Type	TeachingScheme			EvaluationScheme					Total	MinimumPassingMarks					Total	Credits	Remarks
						Internal			External			Internal			External				
			L	T	P	CA	MSE	TW	ESE	PR		CA	MSE	TW	ESE	PR			
22IUCE0501T	SoilMechanics	Theory	3	-	-	20	20	-	60	-	100	-	-	-	24	-	40	3	
22IUCE0502T	Strengthof Materials	Theory	3	-	-	20	20	-	60	-	100	-	-	-	24	-	40	3	
22IUCE0503T	BuildingPlanningandDrawing	Theory	3	-	-	20	20	-	60	-	100	-	-	-	24	-	40	3	
22IUCE0504T	FluidMechanics-1	Theory	3	-	-	20	20	-	60	-	100	-	-	-	24	-	40	3	
22IUCE0505T	RemoteSensingandGeographicalInformation System	Theory	3	-	-	20	20	-	60	-	100	-	-	-	24	-	40	3	
GS-01	Gandhian Studies	Theory	2	0	0	20	-	-	30	-	50	-	-	-	12	-	20	Audit	
22IUCE0501L	SoilMechanicsLab	Practical	-	-	2	-	-	30	-	20	50	-	-	12	-	8	20	1	
22IUCE0502L	StrengthofMaterialsLab	Practical	-	-	2	-	-	30	-	20	50	-	-	12	-	8	20	1	
22IUCE0503L	BuildingPlanningandDrawing	Practical	-	-	2	-	-	30	-	20	50	-	-	12	-	8	20	1	
22IUCE0504L	FluidMechanics-1Lab	Practical	-	-	2	-	-	30	-	20	50	-	-	12	-	8	20	1	
22IUCE0506L	ComputerAidedDrawing-ILab	Practical	-	-	4	-	-	100	-	-	100	-	-	40	-	-	40	2	
Total			17	0	12	120	100	220	330	80	850	-	-	88	132	32	320	21	

Semester:-Sixth																			
CourseCode	Course Title	Type	TeachingScheme			EvaluationScheme					Total	MinimumPassingMarks					Total	Credits	Remarks
						Internal			External			Internal			External				
			L	T	P	CA	MSE	TW	ESE	PR		CA	MSE	TW	ESE	PR			
22IUCE0601T	ConcreteTechnology	Theory	3	-	-	20	20	-	60	-	100	-	-	-	24	-	40	3	
22IUCE0602T	FoundationEngineering	Theory	3	-	-	20	20	-	60	-	100	-	-	-	24	-	40	3	
22IUCE0603T	StructuralAnalysis	Theory	3	1	-	20	20	-	60	-	100	-	-	-	24	-	40	4	
22IUCE0604T	Highway Engineering	Theory	3	-	-	20	20	-	60	-	100	-	-	-	24	-	40	3	
22IUCE0605T	FluidMechanics-2	Theory	3	-	-	20	20	-	60	-	100	-	-	-	24	-	40	3	
CSS	Communication Skill	Theory	2	-	-	10	10	-	30	-	50	-	-	-	12	-	20	2	
CSS-L	Communication Skill	Lab	-	-	2	-	-	50	-	-	50	-	-	20	-	-	20	1	
22IUCE0601L	ConcreteTechnologyLab	Lab	-	-	2	-	-	30	-	20	50	-	-	12	-	8	20	1	
22IUCE0604L	HighwayEngineeringLab	Lab	-	-	2	-	-	50	-	-	50	-	-	20	-	-	20	1	
22IUCE0605L	FluidMechanics-2Lab	Lab	-	-	2	-	-	30	-	20	50	-	-	12	-	8	20	1	
22IUCE0607L	ComputerAidedDrawing-IILab	Lab	-	-	4	-	-	60	-	40	100	-	-	24	-	16	40	2	
Total			17	1	12	110	110	220	330	80	850	0	0	85	132	32	340	24	

A/1100

CourseCode	Course Title	Type	TeachingScheme			EvaluationScheme					Total	MinimumPassingMarks					Total	Credits	Remarks
						Internal			External			Internal			External				
			L	T	P	CA	MSE	TW	ESE	PR		CA	MSE	TW	ESE	PR			
22IUCE0701T	WaterSupply andSanitary Engineering	Theory	3	-	-	20	20	-	60	-	100	-	-	-	24	-	40	3	
22IUCE0702T	EstimatingandCosting	Theory	3	-	-	20	20	-	60	-	100	-	-	-	24	-	40	3	
22IUCE0703T	RailwayandBridgeEngineering	Theory	3	-	-	20	20	-	60	-	100	-	-	-	24	-	40	3	
22IUCE0704T	AdvancedStructuralAnalysis	Theory	3	1	-	20	20	-	60	-	100	-	-	-	24	-	40	4	
22IUCE0705T	Mechanical,ElectricalandPlumbing Services	Theory	3	-	-	20	20	-	60	-	100	-	-	-	24	-	40	3	
22IUCE0701L	WaterSupply andSanitaryEngineeringLab	Practical	-	-	2	-	-	30	-	20	50	-	-	12	-	8	20	1	
22IUCE0702L	EstimatingandCostingLab	Practical	-	-	4	-	-	60	-	40	100	-	-	24	-	16	40	2	
22IUCE0705L	Mechanical,ElectricalandPlumbing ServicesLab	Practical	-	-	2	-	-	30	-	20	50	-	-	12	-	8	20	1	
Total			15	1	8	20	100	120	300	80	700	0	0	48	120	32	280	20	

Semester:-Eight

CourseCode	Course Title	Type	TeachingScheme			EvaluationScheme					Total	MinimumPassingMarks					Total	Credits	Remarks
						Internal			External			Internal			External				
			L	T	P	CA	MSE	TW	ESE	PR		CA	MSE	TW	ESE	PR			
22IUCE0801T	EngineeringEconomics	Theory	3	-	-	20	20	-	60	-	100	-	-	-	24	-	40	3	
22IUCE0802T	Contracts&Tenders	Theory	3	-	-	20	20	-	60	-	100	-	-	-	24	-	40	3	
22IUCE0803T	WaterResourceEngineering-1	Theory	3	-	-	20	20	-	60	-	100	-	-	-	24	-	40	3	
22IUCE0804T	Designof SteelStructure	Theory	3	1	-	20	20	-	60	-	100	-	-	-	24	-	40	4	
22IUCE0805T	EntrepreneurshipinInfrastructure	Theory	3	-	-	20	20	-	60	-	100	-	-	-	24	-	40	3	
OEL	Open Elective	Theory	2	-	-	20	-	-	30	-	50	-	-	-	12	-	20	2	
22IUCE0802L	Contracts&TendersLab	Practical	-	-	2	-	-	30	-	20	50	-	-	12	-	8	20	1	
22IUCE0803L	WaterResourceEngineering-1Lab	Practical	-	-	2	-	-	50	-	-	50	-	-	20	-	-	20	1	
22IUCE0804L	Designof SteelStructureLab	Practical	-	-	2	-	-	30	-	20	50	-	-	12	-	8	20	1	
22IUCE0806L	ComputerOrientedStructuralAnalysis andDesign Lab	Practical	-	-	4	-	-	60	-	40	100	-	-	24	-	16	40	2	
Total			17	1	10	120	100	170	330	80	800	-	-	68	132	32	320	23	

Semester:-Ninth

			TeachingScheme			EvaluationScheme						MinimumPassingMarks							
						Internal			External			Internal			External				

A/1101

CourseCode	Course Title	Type	Teaching Scheme									Total	Evaluation Scheme					Total	Credits	Remarks
			L	T	P	CA	MSE	TW	ESE	PR	CA		MSE	TW	ESE	PR				
22IUCE0901T	NumericalMethods	Theory	3	-	-	20	20	-	60	-	100	-	-	-	24	-	40	3		
22IUCE0902T	DesignofReinforcedConcreteStructures	Theory	3	1	-	20	20	-	60	-	100	-	-	-	24	-	40	4		
22IUCE0903T	EnvironmentImpact,AssessmentandAudit	Theory	3	-	-	20	20	-	60	-	100	-	-	-	24	-	40	3		
22IUCE0904T	ConstructionProjectManagement	Theory	3	-	-	20	20	-	60	-	100	-	-	-	24	-	40	3		
22IUCE0905T	WaterResourceEngineering-2	Theory	3	-	-	20	20	-	60	-	100	-	-	-	24	-	40	3		
22IUCE0902L	DesignofReinforcedConcreteStructureLab	Practical/Lab	-	-	4	-	-	60	-	40	100	-	-	24	-	16	40	2		
22IUCE0903L	EnvironmentImpact,AssessmentandAuditLab	Practical/Lab	-	-	2	-	-	30	-	20	50	-	-	12	-	8	20	1		
22IUCE0904L	ConstructionProjectManagementLab	Practical/Lab	-	-	4	-	-	60	-	40	100	-	-	24	-	16	40	2		
Total			15	1	10	100	100	150	300	100	750	-	-	60	120	40	300	21		

Semester:-Tenth																			
CourseCode	Course Title	Type	TeachingScheme			EvaluationScheme					Total	MinimumPassingMarks					Total	Credits	Remarks
						Internal			External			Internal			External				
			L	T	P	CA	MSE	TW	ESE	PR		CA	MSE	TW	ESE	PR			
22IUCE1001T	AdvancedDesignof Structures	Theory	3	-	-	20	20	-	60	-	100	-	-	-	24	-	40	3	
22IUCE1002T	Elective-1	Theory	3	-	-	20	20	-	60	-	100	-	-	-	24	-	40	3	
22IUCE1003T	RealEstateManagement	Theory	3	-	-	20	20	-	60	-	100	-	-	-	24	-	40	3	
22IUCE1004T	Quality&SafetyInConstruction	Theory	3	-	-	20	20	-	60	-	100	-	-	-	24	-	40	3	
22IUCE1005T	PavementDesign	Theory	3	-	-	20	20	-	60	-	100	-	-	-	24	-	40	3	
22IUCE1006T	StartupIncubators	Theory	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Audit	
22IUCE1001L	AdvancedDesignof StructuresLab	Practical	-	-	2	-	-	30	-	20	50	-	-	12	-	8	20	1	
22IUCE1002L	Elective- 1Lab	Practical	-	-	2	-	-	30	-	20	50	-	-	12	-	8	-	1	
22IUCE1007L	Professional practices in Civil Engineering	Practical	-	-	4	-	-	50	-	100	150	-	-	20	-	40	60	2	
22IUCE1006L	StartupIncubatorsLab	Practical	-	-	2	-	-	50	-	-	50	-	-	20	-	-	20	Audit	
Total			17	0	8	100	100	180	300	120	750	-	-	72	120	56	300	19	

Elective-1	22IUCE1002T -1	SWM
	SolidandIndustrialWasteManagement	
	22IUCE1002T -2	ERS
	EarthquakeResistanceStructures	
	22IUCE1002T -3	GWE
	GroundWaterEngineering	
	22IUCE1002T -4	SCP
	SmartCityPlanning	

Semester:- Eleventh																			
EvaluationScheme										MinimumPassingMarks									

A/1102

CourseCode	Course Title	Type	TeachingScheme			Internal			External		Total	Internal			External		Total	Credits	Remarks
			L	T	P	CA	MSE	TW	ESE	PR		CA	MSE	TW	ESE	PR			
22IUCE1101T	PrestressedConcrete	Theory	3	-	-	20	20	-	60	-	100	-	-	-	24	-	40	3	
22IUCE1102T	GreenBuilding&Energy Conservation	Theory	3	-	-	20	20	-	60	-	100	-	-	-	24	-	40	3	
22IUCE1103T	MaintenanceandRepairofStructures	Theory	3	-	-	20	20	-	60	-	100	-	-	-	24	-	40	3	
22IUCE1104T	Elective - II	Theory	3	-	-	20	20	-	60	-	100	-	-	-	24	-	40	3	
22IUCE1101L	PrestressedConcreteLab	Practical/Lab	-	-	2	-	-	30	-	20	50	-	-	12	-	8	20	1	
22IUCE1102L	GreenBuilding&EnergyConservationLab	Practical/Lab	-	-	2	-	-	50	-	-	50	-	-	20	-	-	20	1	
22IUCE1103L	MaintenanceandRepairofStructuresLab	Practical/Lab	-	-	2	-	-	50	-	-	50	-	-	20	-	-	20	1	
22IUCE1104L	Elective - IILab	Practical/Lab	-	-	2	-	-	30	-	20	50	-	-	12	-	8	20	1	
22IUCE1105PR	Project	Project	-	-	6	-	-	100	-	100	200	-	-	40	-	40	80	3	
Total			12	0	14	80	80	260	240	140	800	-	-	104	96	56	320	19	

Elective-II		
22IUCE1104T-1	:IndustrialPollutionPrevention	IPP
22IUCE1104T-2	:Designofbridges	DOB
22IUCE1104T-3	:GroundImprovementTechniques	GIT
22IUCE1104T-4	:GeotechnicalInvestigationofConstructionProjects	GIC

Semester:- Twelve																			
CourseCode	CourseTitle	Type	TeachingScheme			EvaluationScheme					Total	MinimumPassingmarks					Total	Credits	Remarks
			L	T	P	Internal			External			Internal			External				
						CA	MSE	TW	ESE	PR		CA	MSE	TW	ESE	PR			
22CE120111	Internship	Training	-	-	24	-	-	100	-	200	300	-	-	40	-	80	120	12	
Total			0	0	24	0	0	100	0	200	300	0	0	40	0	80	120	12	

Abbreviations:

L-Lecture, T-Tutorial, P-Practical, CA-ContinuousAssessment, MSE-MidSemesterExamination, ESE-EndSemesterExamination, PR-Practical, TW-TermWork. Note: * and #to indicate any one elective subject to be selected by the students.

Please note the following:

Audit courses (Gandhian Studies, Communications skills, Environment studies and open elective) to be mentioned in the appropriate sem. Whether to be counted for SGPA calculation or not. Please ensure that the spellings of names are correct. Weightage of marks are correct as per credit structure and Names of courses are written in full.