On successful completion of this course the students will be able:  S.NO Course Outcomes  PSPECIFIC LEARNING OUTCOMES -Probability and Statistics(15A54401)  C221.1 To Explain the basic concepts of probability, random variables and solve real time problems using Baye's theorem.  C221.2 To Apply probability distributions like Binomial, Poisson and Normal distributions to solve statistical problems  to solve statistical problems  C221.3 To Analyse the problems of large samples using the techniques of testing of hypothesis.  C221.4 To Apply the techniques of testing of significance for the small samples. Apply  C221.5 To Evaluate the control charts for describing the quality of a manufactured product.  C221.6 To Apply the knowledge of queuing theory to find mean arrival and service rate. Apply  SPECIFIC LEARNING OUTCOMES -MEFA(15A52301)  C221.1 To Explain the role and responsibilities of a managerial economist in modern business scenario.  C221.2 To Predict the demand of a product by using demand forecasting methods  C221.3 To Calculate the Break-Even Point (BEP) with the help of production and cost analysis.  C221.4 To Explain about competitive market structures and business economic environment.  C221.5 To Prepare the financial statements and analyze financial position of the firm. Create  C221.6 To Discuss the sources of capital and allocation of funds for business undertaking. Understand SPECIFIC LEARNING OUTCOMES -Strength of Materials – II(15A01401)  C221.1 To Apply the principle of virtual work  C221.2 To Determine deflection of a beam for various loading conditions Apply  C221.3 To Apply unit load method to find the deflection of truss  Apply  C221.4 To Determine different stresses developed in thick cylinders  Apply  C221.5 To Explain the Use and operation of Theodolite in the field.  C221.6 To Analyse the unsymmetrical bending in the curved pane  SPECIFIC LEARNING OUTCOMES Surveying—II(15A01402)  C222.1 To Explain the Use and operation of Theodolite in the field.  C222.2 To Apply the knowledge of Theodoli	AY: 201	AY : 2019-20 Year:II –II Sem		
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C221.2 To Determine deflection of a beam for various loading conditions  Apply C221.3 To Apply unit load method to find the deflection of truss  Apply C221.4 To Determine different stresses developed in thick cylinders  Apply C221.5 To Understand the behaviour of column for combined bending and axial loading C221.6 To Analyse the unsymmetrical bending in the curved pane  Analyse  SPECIFIC LEARNING OUTCOMES -Surveying—II(15A01402)  C222.1 To Explain the Use and operation of Theodolite in the field.  C222.2 To Apply the knowledge of Theodolite in different operations in civil engineering projects.  C222.3 To Apply the knowledge and principles for the purpose of Tacheometric survey in finding out the constants.  C222.4 To Formulate the setting out of curve by Linear and Angular methods.  C222.5 To Identify the Use of total station in the field of Civil Engineering Land Survey.  C222.6 To Differentiate the basic principles of GPS and GIS in civil engineering.  Understand  SPECIFIC LEARNING OUTCOMES -Structural Analysis — I(15A01403)  C223.1 To Apply the knowledge of energy theorems in structural analysis concepts.  Apply  C223.2 To Analyse the various indeterminate structures such as fixed beams  Analyse  C223.3 To Analyse concept of deflection, bending moment and shear force diagram in  Analyse	SPECIF	IC LEAI	RNING OUTCOMES -Strength of Materials – II(15A01401)	
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C223.3 To Analyse concept of deflection, bending moment and shear force diagram in Analyse				
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			Variable 1971 - 1971-1971-1971-1971-1971-1971-19	

C223.4	To Analyse slope and deflection of various members with sinking supports also.	Analyse
C223.5	To Calculate the moment distribution method for continuous beams	Apply
C223.6	To Analyse the single storey portal frame without side sway	Analyse
SPECIF	IC LEARNING OUTCOMES -Hydraulics & Hydraulic Machinery(15A01404)	•
C224.1	To Understand the fluid flow phenomena observed in Civil Engineering systems	Understand
	such as flow in a pipe, flow measurement through orifices, mouth pieces, notches	
	and weirs	
C224.2	To Analyse fluid flows in open channel hydraulics and devices such as weirs and	Analyse
C224.3	flumes  To Design open channels for most economical sections like rectangular,	Create
C224.3	trapezoidal and circular sections	Create
C224.4	To Calculate forces and work done by a jet on fixed or moving plate and curved	Apply
022	plates	1-1919
C224.5	To Apply the working principles of Impulse and Reaction turbines	Apply
C224.6	To Apply the working principles of the Reciprocating pump	Apply
SPECIF	IC LEARNING OUTCOMES -Fluid Mechanics & Hydraulic Machinery	
Laborat	ory(15A01405)	
C225.1	To Determine the fluid flow principles in orifice and Venturimeter	Apply
C225.2	To Calculate Coefficient of discharge for a small orifice by a constant head method	Analyze
C225.3	To Analyse the Calibration of contracted Rectangular Notch and /or Triangular	Analyze
	Notch	
C225.4	To Determine Coefficient of loss of head in a sudden contraction and friction	Analyze
C225.5	To Understand the Study of Hydraulic jump at various points	Remember
C225.6	To Determine the Efficiency test on Centrifugal Pump.	Apply
	IC LEARNING OUTCOMES -Surveying Laboratory – II (15A01406)	търгу
C226.1	To Evaluate horizontal and vertical distances in hilly terrain	Evaluate
C226.2	To Apply survey technique to align highways curves	Apply
C226.3	To Apply survey technique to align railway curves.	Apply
C226.4	To Explain the procedure of triangulation	Understand
C226.5	To Explain the procedure of triangulation  To Explain the methods involve in photographic survey.	Understand
	1 2 1 7	
C226.6	To Choose advances in surveying techniques over conventional method in the field of civil engineering.	Analyse
SPECIF	IC LEARNING OUTCOMES -Comprehensive Online Examination-I (15A01407	7)
C227.1	To Explain the basic concepts of probability, random variables and solve real time	Understand
C22,.1	problems using Baye's theorem.	Chacistana
C227.2	To Predict the demand of a product by using demand forecasting methods	Apply
C227.3	To Apply unit load method to find the deflection of truss	Apply
C227.4	To Apply the knowledge of energy theorms in structural analysis concepts.	Apply
C227.5	To Design open channels for most economical sections like rectangular,	Create
	trapezoidal and circular sections	
C227.6	To Formulate the setting out of curve by linear and angular methods.	Create

AY: 2019	-20	Year :III –II Sem	
On success	sful co	mpletion of this course the students will be able:	
SNO	Cour	rse Outcomes	Taxonomy
SPECIFIC	C LEA	RNING OUTCOMES -Concrete Technology(15A01601)	
C321.1		entify and describe different constituent of concrete	Remember
C321.2		xamine and able to test strength and quality of plastic and set concrete.	Apply
C321.3		nderstand the application of admixture and its effect on properties of	Understand
C321.4		esign various mix proportions of concrete according to availability of dients and design needs.	Create
C321.5	To Ev	valuate the effect of the environment on service life performance, properties ailure modes of structural concrete and demonstrate techniques of uring the Non Destructive Testing of concrete structure	Evaluate
C321.6		esign concrete mix which fulfils the required properties for fresh and ened concrete	Create
SPECIFIC	C LEA	RNING OUTCOMES -Design and Drawing of Steel Structures(15A016)	02)
C 322.1	To D	esign bolted and welded connections	Create
C 322.2	To D	esign tension members and Compression members using Specifications	Create
C 322.3	To D	esign Slab Base and Gusset Base under axial loads using IS Specifications	Create
C 322.4	To D	esign beams, Purlins & Built Up Beams	Create
C 322.5		ssess loads and design of Stiffened Seated Connections	Evaluate
C 322.6		esign structural Components of Plate Girder and Gantry Girder	Create
SPECIFIC	C LEA	RNING OUTCOMES -Geotechnical Engineering – II(15A01603)	1
C323.1		nderstand about the importance of foundation and their necessity of	Understand
C323.2	To Ill	lustrate various procedures and tests for calculating bearing capacity of soil rious soils.	Analyse
C323.3	To In	terpret the knowledge about behaviour of various foundations on soil.	Understand
C323.4		xplain about the failure of slopes in different zones of soils.	Understand
C323.5	To U	nderstand the stability criteria of various structures.	Understand
C323.6	To D	esign Shallow and Deep foundations.	Create
SPECIFIC	C LEA	RNING OUTCOMES -Transportation Engineering - I(15A01604)	1
C324.1	To Pr	redict out surveys involved in planning and highway alignment	Apply
C324.2	-	esign cross section elements, sight distance, horizontal and vertical	Create
C324.3		nderstand traffic studies, traffic regulations and control, and intersection	Understand
C324.4		etermine the characteristics of pavement materials	Apply
C324.5		esign flexible and rigid pavements as per IRC	Create
C324.6		esign the traffic island	Create
SPECIFIC		RNING OUTCOMES -Water Resources Engineering – I(15A01605)	1
C325.1		nalyse the concepts of Engineering Hydrology and its applications	Analyse
C325.2		esign Runoff estimation, estimation of design discharge and flood routing.	Create
C325.3		esign the irrigation structures.	Create

C325.4	To Understand the basic types of irrigation, irrigation standards and crop water assessment.	Understand
C325.5	To Predict the different aspects for the design of hydraulic structures	Apply
C325.6	To Illustrate the basic design required for diversion heads and canal outlets.	Apply
	C LEARNING OUTCOMES - REMOTE SENSING AND GIS(15A01606)	11991
C326.1	To Understand the Photogrammetric techniques, concepts, components of	Understand
C320.1	Photogrammetry	Chacistana
C326.2	To Understand the basic concepts and principles of various components of remote sensing.	Understand
C326.3	To Determine the process of data acquisition of satellite images and their characteristics	Apply
C326.4	To Examine an image visually and digitally with digital image processing techniques.	Apply
C326.5	To Discuss an exposure about GIS and its practical applications in Civil Engineering	Understand
C326.6	To Analyse the energy interactions in the atmosphere and earth surface features	Analyse
SPECIFIC	C LEARNING OUTCOMES -Concrete Technology Laboratory(15A01609)	•
C 329.1	To Determine the Consistency and Fineness of Cement	Apply
C 329.2	To Determine the Setting time of cement, Specific gravity and Soundness of Cement.	Apply
C 329.3	To Determine the Compressive strength of Cement and Concrete	Apply
C 329.4	To Determine the Workability of Cement Concrete by Compaction Factor, Slump Cone and Vee – Bee Consistometer.	Apply
C 329.5	To Determine the Specific gravity of Coarse aggregate and Fine aggregate	Apply
C 329.6	To Determine the bulking of sand and also to Understand the Non-Destructive Testing procedures on Concrete	Apply
SPECIFIC	C LEARNING OUTCOMES -Transportation Engineering Laboratory(15A01	610)
C 320.1	To Identify Engineering Properties of Aggregates	Remember
C 329.2	To Identify the Grade & Properties of Bitumen.	Remember
C 329.3	To Predict out the Peak Hour Traffic & Peak Time for a given location on the road.	Apply
C 329.4	To Calculate Design Speed, Maximum Speed & Minimum Speed limits of a location through spot speed	Apply
C 329.5	To Measure the Quality Control tests on Pavements and Pavement Materials	Evaluate
C 329.6	To Examine various Specific Tests required for Field Application and draw necessary inferences.	Apply
	C LEARNING OUTCOMES -Advanced English Language Communication Sl Laboratory(15A52602)	kills
C 3202.1	To State the importance of phonetics, accent, rhythm intonation and stress and	Remember
	practice them in day to day conversation.	Remember
C 3202.2	To Understand the influence of mother tongue on English language and neutralize it to improve fluency in spoken English	Understand
C 3202.3	To Summarize multimedia content by watching videos on screen to acquire proficiency in written communication skills.	Understand
C 3202.4	To Evaluate and exhibit acceptable etiquette essential in social and professional settings	Evaluate

C 3202.5	To Develop communication skills by practicing project reports, film and book	
	reviews.	
C 3202.6	To Develop the usage of language effectively to face interviews, group	Create
	discussions, public speaking	
SPECIFIC	C LEARNING OUTCOMES -Comprehensive Online Examination-II (15A016)	11)
C 3211.1	To Identify and describe different constituent of concrete	Remember
C 3211.2	To Design bolted and welded connections of various structures	Create
C 3211.3	To Understand about the importance of foundation and their necessity of	Understand
	designing.	
C 3211.4	To Analyse the concepts of Engineering Hydrology and its applications	Analyse
C 3211.5	To Predict out surveys involved in planning and highway alignment	Apply
C 3211.6	To Describe the causes of disasters and their control measures	Understand

AY: 201	19-20	Year :IV –II Sem		
On succe	ssful con	repletion of this course the students will be able:		
SNO	Course	Outcomes	Taxonomy	
SPECIF	SPECIFIC LEARNING OUTCOMES -Advanced Structural Engineering(15A01802)			
C422.1		ign flat slabs	Create	
C422.2		ign bunkers and analysis of silos	Create	
C422.3	To Desi	ign reinforced concrete chimneys	Create	
C422.4		ign underground and elevated water tanks	Create	
C422.5		ign cantilever retaining walls	Create	
C422.6		ign counter fort retaining walls	Create	
SPECIF		RNING OUTCOMES -Prestressed Concrete(15A01803)		
C423.1		lyse the various principle of post tensioning and pre tensioning of	Analyse	
C423.2		ly various methods and systems of prestressing of concrete	Apply	
C423.3		lict the losses in pre tensioning and post tensioning of concrete	Apply	
C423.4		lyse various sections to withstand shear	Analyse	
C423.5		ign various sections of pretensioning of concrete for deflection	Create	
C423.6	To Desi	ign various sections of pretensioning of concrete for flexure	Create	
SPECIF		RNING OUTCOMES -Comprehensive Viva Voce(15A01805)		
C425.1		pare comprehensively to answer questions from all the courses of two	Create	
	semeste			
C425.2	_	pare Oral Presentation skills by answering questions in precise and manner	Create	
C425.3	To Dev	elop confidence and inter-personal skills.	Create	
C425.4	To Exp	lain the answer very clearly all the courses of two semesters	Understand	
C425.5	To Disc	cuss the clear explanation about the course structure	Understand	
C425.6		out the Personal development skills so that to enhance knowledge	Remember	
SPECIF	SPECIFIC LEARNING OUTCOMES -Technical Seminar (15A01806)			
C426.1		elop comprehensive report based on literature survey/Topics related to at subjects in the semester	Create	
C426.2	To Iden	tify the applicability of modern software tools and technology.	Remember	
C426.3		aslate the presentation based on the preparation	Understand	
C426.4		the Answer for queries which is posed by the listeners	Remember	
C426.5		es himself for to improve presentation skills	Evaluate	
C426.6	To Eval	luate the skills which is required for the topic	Evaluate	
SPECIF		RNING OUTCOMES -Project Work (15A01807)	1	
C427.1	To Prep	pare abstract for given project by identifying the requirements and tive solution	Create	
C427.2		elop latest information related to the project from various sources to the project	Create	
C427.3		ose the materials for the project as per specifications	Evaluate	
C427.4		ose efficient test for developing the project	Evaluate	

C427.5	To Illustrate effective team work after efficient testing, elaborate the completed task and compile the project	Analyze
C427.6	To Prepare a good report of the project as per the guidelines and present to the panel of experts	Create
SPECIF	IC LEARNING OUTCOMES -Survey Camp(15A01808)	
C428.1	To Calculate preliminary surveying in the field of civil engineering applications such as Structural, Highway Engineering and Geotechnical Engineering	Apply
C428.2	To Outline accurate measurements, field plotting and adjustment of traverse	Analyse
C428.3	To Identify various conventional instruments involved in surveying with respect to utility and precision	Remember
C428.4	To Explain the Use and operation of Theodolite in the field.	Understand
C428.5	To Apply the knowledge of Theodolite in different operations in civil engineering projects.	Apply
C428.6	To Apply the knowledge and principles for the purpose of Tacheometric survey in finding out the constants.	Apply