S					SESSION:	2023-24
	BRANCH: COURSE: SUBJECT:	B.TECH- CE	CE /B.Tech II YEAR:	Ш	SESSION: SEMESTER: SUBJECT CODE:	ш
	SUBJECT:		Applied Mathematics III	COURSE OUTCOMES (CO)	SUBJECT CODE:	AHT 006
CO #				COURSE OUTCOMES (CO)		
CET 306.1	Remember th	e concept of Laplace transform and apply in solv	ing real life problems.			
CET 306.2	Apply the co	ncept of Fourier transform to evaluate engineerin	g problems.			
CET 306.3	Understand t	evaluate roots of algebraic and transcendental	equations.			
CET 306.4		blem related to interpolation, differentiation, inte				
CET 306.5		ne concept of correlation, regression, moments, s		ing.		
	BRANCH: COURSE:	B.TECH- CE	CE /B.Tech II YEAR:	п	SESSION: SEMESTER:	2023-24 III
s	SUBJECT:		Universal Human Value		SUBJECT CODE:	AHT 008
				COURSE OUTCOMES (CO)		
CO # ET 308.1	Students are	expected to become more aware of themselves, a	nd thair curroundings (family, coole	CO STATEMENT		
					human astron in mind	
ET 308.2 ET 308.3	_	become more responsible in life, and in handling nave better critical ability.	problems with sustainable solution	s, while keeping human relationships and	numan nature in mind.	
ET 308.3	~	,				
ET 308.4	_	ilso become sensitive to their commitment towar				
		at they would be able to apply what they have le		ay-to- day settings in real life, at least a be		
	BRANCH: COURSE:	B.TECH- CE	CE /B.Tech II YEAR:	п	SESSION: SEMESTER:	2023-24 III
	SUBJECT:		Construction Materials		SUBJECT CODE:	CET 001
				COURSE OUTCOMES (CO)		
CO #				CO STATEMENT		
CET 301.1	Compare the	properties of most common and advanced build	ing materials.			
CET 301.2		he typical and potential applications of these mat				
ET 301.3	_	he relationship between material properties and s				
ET 301.4		he importance of experimental verification of ma				
CET 301.5	understand t BRANCH:	he properties of low cost and advanced material	Ised in construction. CE /B.Tech II		SESSION:	2023-24
	COURSE:	B.TECH- CE	YEAR:	п	SEMESTER:	1023-24 III
	SUBJECT:		Construction Materials lab		SUBJECT CODE:	CEP 001
				COURSE OUTCOMES (CO)		
CO #				CO STATEMENT		
EP 301.1		be able to understand characteristics of various				
EP 301.2		be able to understand various types of propertie				
EP 301.3		be able to understand various types of propertie				
CEP 301.4 CEP 301.5		be able to understand characteristics of various be able to understand characteristics of various				
	BRANCH:		CE /B.Tech II		SESSION:	2023-24
	COURSE:	B.TECH- CE	YEAR:	Ш	SEMESTER:	ш
s	SUBJECT:		Surveying		SUBJECT CODE:	CET 002
				COURSE OUTCOMES (CO)		
CO #		201 1.1% I		CO STATEMENT		
ET 302.1		urvey, compass survey, Theodolite survey , leve		nt and		
ET 302.2		rves are plotted and constructed for highways ar				
CET 302.3 CET 302.4		truments like Digital Theodolite, Auto Level, El ne various methods of plane table surveying and				
ET 302.5		bout various types of errors in surveying and ho				
	BRANCH:		CE /B.Tech II		SESSION:	2023-24
	COURSE:	B.TECH- CE	YEAR:	п	SEMESTER:	ш
S	SUBJECT:		Surveying lab		SUBJECT CODE:	CEP 002
CO #				COURSE OUTCOMES (CO) CO STATEMENT		
CEP 302.1	The student y	vill be able to develop methods through the know	dedge of modern science, technolog		e field	
CEP 302.2		will be able to determine the distance and angle I	-			
CEP 302.3		will be able to determine the relative position of				
304.3	The student	Mar. 11.	an area on a horizontal plan.			
CEP 302.4	The student	will be able to prepare a map or plan to represent	1			
CEP 302.4 CEP 302.5	The student	will be able to prepare a map or plan to represen will be able to set out curves.				
CEP 302.4 CEP 302.5	The student BRANCH:	will be able to set out curves.	CE /B.Tech II		SESSION:	2023-24
CEP 302.4 CEP 302.5 E	The student BRANCH: COURSE:		CE /B.Tech II YEAR:	п	SEMESTER:	ш
CEP 302.4 CEP 302.5 E	The student BRANCH:	will be able to set out curves.	CE /B.Tech II			
CEP 302.4 CEP 302.5 E	The student BRANCH: COURSE:	will be able to set out curves.	CE /B.Tech II YEAR:	II COURSE OUTCOMES (CO) CO STATEMENT	SEMESTER:	ш
CEP 302.4 CEP 302.5 E CO #	The student BRANCH: COURSE: SUBJECT:	will be able to set out curves. B.TECII-CE	CE /B.Tech II YEAR: Strength Of Materials	COURSE OUTCOMES (CO) CO STATEMENT	SEMESTER:	III CET 003
CEP 302.4 CEP 302.5 E C C C C C C C C C C C C C C C C C C	The student BRANCH: COURSE: SUBJECT: Describe the	will be able to set out curves. R.TECH-CE concepts and principles, understand the theory of	CE /B.Tech II VEAR: Strength Of Materials clasticity including strain/displace	COURSE OUTCOMES (CO) CO STATEMENT ment and Hooke's law relationships; and	SEMESTER: SUBJECT CODE: verform calculations, relative to the strength and sta	III CET 003 billity of structures and mechanical components;
CEP 302.4 CEP 302.5 E C C C C C C C C C C C C C C C C C C	The student BRANCH: COURSE: SUBJECT: Describe the Define the ch	will be able to set out curves. B.TECH-CE concepts and principles, understand the theory of aracteristics and calculate the magnitude of com	CE//RTeeh II VEAR: Strength Of Materials elasticity including strain/displace bined stresses in individual member	COURSE OUTCOMES (CO) CO STATEMENT ment and Hooke's law relationships; and rs and complete structures; analyze solid n	SEMESTER: SUBJECT CODE:	III CET 003 billity of structures and mechanical components;
CEP 302.4 CEP 302.5 CO # CCO # CET 303.1 CET 303.2 CET 303.3	The student BRANCH: COURSE: SUBJECT: Describe the Define the cf Analyze vari	B.TECH-CE B.TECH-CE concepts and principles, understand the theory of aracteristics and calculate the magnitude of com sus situations involving structural members subj	CE //b.Teeh II YEAR: Strength Of Materials elasticity including strain/displace bined stresses in individual membe	COURSE OUTCOMES (CO) CO STATEMENT ment and Hooke's law relationships; and rs and complete structures; analyze solid I cation of Mohr's circle of stress; locate th	SEMESTER: SUBJECT CODE: serform calculations, relative to the strength and sta nechanics problems using classical methods and em share centre of thin wall beams;	III CKT 003 billity of structures and mechanical components; rgg methods;
CEP 302.4 CEP 302.5 CO # CO # CET 303.1 CET 303.2 CET 303.3	The student BRANCH: COURSE: SUBJECT: Describe the Define the cf Analyze vari	B.TECH-CE B.TECH-CE concepts and principles, understand the theory of aracteristics and calculate the magnitude of com sus situations involving structural members subj	CE //b.Teeh II YEAR: Strength Of Materials elasticity including strain/displace bined stresses in individual membe	COURSE OUTCOMES (CO) CO STATEMENT ment and Hooke's law relationships; and rs and complete structures; analyze solid I cation of Mohr's circle of stress; locate th	SEMESTER: SUBJECT CODE:	III CKT 003 billity of structures and mechanical components; rgg methods;
CEP 302.4 CEP 302.5 CEP 302.5 CC # CET 303.1 CET 303.2 CET 303.3 CET 303.3 CET 303.5 ET 303.5	The student BRANCH: COURSE: SUBJECT: Describe the Define the cf Analyze vari Calculate the Analyze the s BRANCH:	will be able to set out curves. B.TECH-CE concepts and principles, understand the theory of arracteristics and calculate the magnitude of com us situations involving structural members sub- deflection at any point on a beam subjected to a treases developed in thin cylinders and concept c	CE //R.Tech II YEAR: Strength Of Materials elasticity including strain/displace bined stresses in individual membe eccel to combine stresses by appli- combination of loads; as/ve for str f torsional equation in shafts, so/ve CR.TicTed II	COURSE OUTCOMES (CO) CO STATEMENT ment and Hooke's law relationships; and as and complete structures; analyze solid cation of Mohr's circle of stress; locate th sesses and deflections of beams under unsy torsion problems in bars and thin walled	SEMESTER: SUBJECT CODE: Serform calculations, relative to the strength and sta acchanics problems using classical methods and en share centre of this wall beams: metrical loading; apply various failure criteria for members; SESSION:	III CKT 063 billity of structures and mechanical components; rgy methods; general stress states at points; 2022-24
EP 302.4 EP 302.5 E CO # ET 303.1 ET 303.2 ET 303.3 ET 303.4 ET 303.5 ET 305.5 ET 30	The student BRANCH: COURSE: SUBJECT: Describe the Define the cf Analyze vari Calculate the Analyze the : BRANCH: COURSE:	It is able to set out curves. B.TECH-CE ECONCEPTS and principles, understand the theory of arrecteristics and calculate the magnitude of com- sus situations involving structural members subj deflection at any point on a beam subjected to a	CE //B.Tech II YEAR: Strength Of Materials elasticity including strain/displace bined stresses in individual membe ceted to combinition of floads, solve for str f torsional equation in shafts, solve CE //B.Tech II YEAR:	COURSE OUTCOMES (CO) CO STATEMENT ment and Hooke's law relationships; and rs and complete structures; analyze solid at cation of Morir sciele of stress; locate th sesses and deflections of beams under unsy	SEMESTER: SUBJECT CODE: SUBJECT CO	III CET 003 bility of structures and mechanical components; rgy methods; general stress states at points; 2023-24 III
EP 302.4 EP 302.5 E CO # ET 303.1 ET 303.2 ET 303.3 ET 303.4 ET 303.5 ET 305.5 ET 30	The student BRANCH: COURSE: SUBJECT: Describe the Define the cf Analyze vari Calculate the Analyze the s BRANCH:	will be able to set out curves. B.TECH-CE concepts and principles, understand the theory of arracteristics and calculate the magnitude of com us situations involving structural members sub- deflection at any point on a beam subjected to a treases developed in thin cylinders and concept c	CE //R.Tech II YEAR: Strength Of Materials elasticity including strain/displace bined stresses in individual membe eccel to combine stresses by appli- combination of loads; as/ve for str f torsional equation in shafts, so/ve CR.TicTed II	COURSE OUTCOMES (CO) CO STATEMENT ment and Hooke's law relationships; and rs and complete structures; analyze solid cation of Mohr's circle of stress; locate th sesses and deflections of beams under unsy torsion problems in bars and thin walled II	SEMESTER: SUBJECT CODE: Serform calculations, relative to the strength and sta acchanics problems using classical methods and en share centre of this wall beams: metrical loading; apply various failure criteria for members; SESSION:	III CKT 063 billity of structures and mechanical components; rgy methods; general stress states at points; 2022-24
EP 302.4 EP 302.5 CO # ET 303.1 ET 303.2 ET 303.3 ET 303.4 ET 303.5 ET 305.5 ET 305.	The student BRANCH: COURSE: SUBJECT: Describe the Define the cf Analyze vari Calculate the Analyze the : BRANCH: COURSE:	will be able to set out curves. B.TECH-CE concepts and principles, understand the theory of arracteristics and calculate the magnitude of com us situations involving structural members sub- deflection at any point on a beam subjected to a treases developed in thin cylinders and concept c	CE //B.Tech II YEAR: Strength Of Materials elasticity including strain/displace bined stresses in individual membe ceted to combinition of floads, solve for str f torsional equation in shafts, solve CE //B.Tech II YEAR:	COURSE OUTCOMES (CO) CO STATEMENT ment and Hooke's law relationships; and as and complete structures; analyze solid cation of Mohr's circle of stress; locate th sesses and deflections of beams under unsy torsion problems in bars and thin walled	SEMESTER: SUBJECT CODE: SUBJECT CO	III CET 003 bility of structures and mechanical components; rgy methods; general stress states at points; 2023-24 III
EP 302.4 EP 302.5 CO # ET 303.1 ET 303.2 ET 303.3 ET 303.3 ET 303.5 ET 305.5 ET 305.	The student BRANCH: COURSE: SUBJECT: Describe the Define the ef Analyze vari Calculate the Analyze vari Calculate the Analyze vari Calculate the Analyze vari Calculate the SUBJECT:	will be able to set out curves. B.TECH-CE concepts and principles, understand the theory of arracteristics and calculate the magnitude of com us situations involving structural members sub- deflection at any point on a beam subjected to a treases developed in thin cylinders and concept c	CE //B.Tech II VEAR: Strength Of Materials elasticity including strain/displace bined stresses in individual membe ceted to combinition of floads; solve for str florsional equation in shafts, solve CE //Rech II VEAR: Strength Of Materials lab	COURSE OUTCOMES (CO) CO STATEMENT ment and Hooke's law relationships; and rs and complete structures; analyze solid t action of Mohr's circle of stress; locate th scess and deflections of beams under unsy torsion problems in bars and thin walled II COURSE OUTCOMES (CO) CO STATEMENT	SEMESTER: SEFORM calculations, relative to the strength and sta acchanics problems using classical methods and ena shear centre of thin wall beams; matricial loading; apply various failure criteria for members; SEMESTER: SEMESTER: SUBJECT CODE:	III CET 003 bility of structures and mechanical components; rgy methods; general stress states at points; 2023-24 III
EP 302.4 EP 302.5 CO # ET 303.1 ET 303.2 ET 303.2 ET 303.3 ET 303.4 ET 303.5 CO # ET 303.3 ET 303.4 ET 303.5 ET 303.4 ET 303.5 ET 303.4 ET 303.5 ET 303.4 ET 303.5 ET 303.4 ET 303.5 ET 303.4 ET 303.5 ET 305.5 ET	The student BRANCH: COURSE: Describe the Describe the Define the cl Analyze vari Calculate the Analyze vari Calculate the Analyze the : BRANCH: COURSE: SUBJECT:	Nill be able to set out curves. B.TECII-CE concepts and principles, understand the theory of aracteristics and calculate the magnitude of com us situations involving structural members subjected to a deflection at any point on a beam subjected to a tresses developed in thin cylinders and concept of B.TECII-CE	CE/B.Tech II YEAR: Strength Of Materials elasticity including strain/displace bined stresses in individual membe ected to combined stresse by applic combination of loads; solve for str f torsional equation in shafts, solve CE/B.Tech II YEAR: Strength Of Materials lab	COURSE OUTCOMES (CO) CO STATEMENT ment and Hooke's law relationships; and rs and complete structures; analyze solid i cation of Mohr's circle of stress; locate th sesses and deflections of beams under unsy tersion problems in bars and thin walled U U COURSE OUTCOMES (CO) CO STATEMENT materials and strength of structural eleme	SEMESTER: SEFORM calculations, relative to the strength and sta acchanics problems using classical methods and ena shear centre of thin wall beams; matricial loading; apply various failure criteria for members; SEMESTER: SEMESTER: SUBJECT CODE:	III CET 003 bility of structures and mechanical components; rgy methods; general stress states at points; 2023-24 III
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CEP 302.4 CEP 302.5 CO # CO # CET 303.1 CET 303.3 CET 303.3 CET 303.3 CET 303.3 CET 303.4 CET 303.4 CET 303.3 CET 303.3 CET 303.3 CEP 303.1 CEP 303.2 CEP 303.3 CEP 303.3 CEP 303.3 CEP 303.3 CEP 303.3 CEP 303.3 CEP 303.3 CEP 303.3 CEP 303.4 CEP 303.4 CEP 303.4 CEP 303.2 CEP 30.2 CEP 30.2	The student BRAXCH: COURSE: St BJECT: Define the ef Analyze variant Calculate the Analyze the BRAXCH: COURSE: St BJECT: The student The student The student The student	will be able to set out curves.	CE //R.Tech II YEAR: Strength Of Materials elasticity including strain/displace bined stresses in individual membe cected to combined stresses by appli- combination of loads; solve for stre fursional equation in shafts, solve CE. R.Tech II YEAR: Strength Of Materials lab mestresses and strains for different breaking stress and ultimate stress ne the modulus of rigidity of given test, shear ics, bending test etc.	COURSE OUTCOMES (CO) CO STATEMENT ment and Hooke's law relationships; and rs and complete structures; analyze solid i cation of Mohr's circle of stress; locate th sesses and deflections of beams under unsy tersion problems in bars and thin walled I UCURSE OUTCOMES (CO) CO STATEMENT materials and strength of structural eleme	SEMESTER: SEFORM calculations, relative to the strength and sta acchanics problems using classical methods and ena shear centre of thin wall beams; matricial loading; apply various failure criteria for members; SEMESTER: SEMESTER: SUBJECT CODE:	III CET 003 bility of structures and mechanical components; rgy methods; general stress states at points; 2023-24 III
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EP 302.4 EP 302.5 EP 302.5 CO # ET 303.1 ET 303.2 ET 303.3 ET 303.3 ET 303.5 ET 303.4 ET 303.5 EP 303.1 EP 303.1 EP 303.3 EP 303.3 EP 303.3 EP 303.4 EP 303.4	The student BRAXCH: COURSE: St BJECT: Define the ef Analyze variant Calculate the Analyze the BRAXCH: COURSE: St BJECT: The student The student The student The student	will be able to set out curves.	CE //B.Tech II VEAR: VEAR: Strength Of Materials elasticity including strain/displace bined stresses in individual membe exted to combined stresses by appli- combination of Ioads; solve for str f torsional equation in shafts, solve CE //B.Tech II VEAR: Strength Of Materials lab we stresses and strains for different i breaking stress and ultimate stress in the modulus of rigidity of given test, shear test, bandtrafts et ce.	COURSE OUTCOMES (CO) CO STATEMENT ment and Hooke's law relationships; and rs and complete structures; analyze solid i cation of Mohr's circle of stress; locate th sesses and deflections of beams under unsy tersion problems in bars and thin walled I UCURSE OUTCOMES (CO) CO STATEMENT materials and strength of structural eleme	SEMESTER: SEFORM calculations, relative to the strength and sta acchanics problems using classical methods and ena shear centre of thin wall beams; matricial loading; apply various failure criteria for members; SEMESTER: SEMESTER: SUBJECT CODE:	III CET 003 bility of structures and mechanical components; rgy methods; general stress states at points; 2023-24 III
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EP 302.4 EP 302.5 EP 302.5 S CO # ET 303.1 ET 303.2 ET 303.3 ET 303.4 ET 303.4 ET 303.4 ET 303.4 ET 303.4 ET 303.4 ET 303.4 ET 303.4 ET 303.4 ET 303.5 ET 203.4 EP 303.1 EP 303.2 EP 303.3 EP 303.3 EP 303.3 EP 303.3 EP 303.5 EP 303.5 EP 303.5	The student BRANCH: COURSE: SUBJECT: Describe the description of the student Calculate the Analyze vari Calculate the Analyze vari Calculate the Analyze vari Calculate the Analyze vari Calculate the Student The student The student The student The student The student BRANCH: COURSE:	will be able to set out curves. B.TECII-CE Concepts and principles, understand the theory of aracteristics and calculate the magnitude of com us situations involving structural members sub deflection at any point on a beam subjected to a treases developed in thin cylinders and concept c B.TECII-CE will be able to understand the basic concepts of f will be able to understand the basic concepts of yield stress. Will be able to understand the basic concepts of yield stress. Will be able to conduct the torsion test to determi will be able to conduct the torsion test to determi will be able to conduct the construct to determi will be able to conduct to construct to determi will be able to conduct to construct to determi will be able to conduct density and elongation	CE //B.Tech II VEAR: Strength Of Materials elasticity including strain displace bined stresses in individual membe code to combined stresses by appli combination of loads; solve for str forsional equation in shafts, solve CE //B.Tech II VEAR: Strength Of Materials lab	COURSE OUTCOMES (CO) CO STATEMENT ment and Hooke's law relationships; and rs and complete structures; analyze solid tation of Mohr's circle of atress; locate the sease and deflections of beams under uney torsion problems in bars and thin walled II COURSE OUTCOMES (CO) CO STATEMENT materials and strength of structural eleme of the given specimen under tension test.	SEMESTER: SERIOR calculations, relative to the strength and sta nechanics problems using classical methods and en- shear centre of thin wall beams: metrical loading; apply various failure criteria for members; SEMESTER: SEMESTER: MENION: SEMESTER:	III CKT 093 bility of structures and mechanical components; rgy methods; general stress states at points; 2022-24 III CEP 093
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CEP 302.4 CEP 302.5 CEP 302.5 CET 303.1 CET 303.2 CET 303.3 CET 303.3 CET 303.3 CET 303.4 CET 303.5 CEP 303.1 CEP 303.1 CEP 303.1 CEP 303.2 CEP 303.4 CEP 303.5 CEP 303.4 CEP 303.5 CEP 305.5 CEP 30	The student BRANCI: COURSE: STBJECT: Define the cf Analyze with Calculate the Analyze the BRANCI: COURSE: STBJECT: Define the cf Analyze the COURSE: STBJECT: Define the cf Analyze the COURSE: STBJECT: Define the cf Analyze the COURSE: STBJECT:	will be able to set out curves.	CE //R.Tech II VEAR: Strength Of Materials elasticity including strain/displace bined stresses in individual membe exted to combined stresses by apply combination of loads; solve for stri (resional equation in shafts, solve CE //R.Tech II VEAR: Strength Of Materials lab in stresses and strains for different breaking stress and ultimate stress the modulus of rigidity of given test, shart ext., banding test etc. CE //R.Tech II VEAR: Python ing concepts like data types. ing python. CE //R.Tech II VEAR: Data Structures relative merits of worst-case, aver; performance characteristics (cg., damental algorithms and data stru- kard list.	COURSE OUTCOMES (CO) CO STATEMENT ment and Hocke's law relationships; and rs and complete structures; analyze solid 1 cation of Mohr's circle of structures; courted ment and Hocke's law relationships; and researed addrections of beams under unsy torsion problems in bars and thin walled u COURSE OUTCOMES (CO) CO STATEMENT H COURSE OUTCOMES (CO) CO STATEMENT ons. U COURSE OUTCOMES (CO) CO STATEMENT ons. U COURSE OUTCOMES (CO) CO STATEMENT age-case, and bectase analysis. maning time, stability, space usage) and 1 ctures and be able to trace their operation	SEMESTER: SERION: S	HI CRT 993 billity of structures and mechanical components; rgy methods; general stress states at points; 2023-24 III CRF 993 IIII CRF 993 III CRF 993 III CRF 993 IIII CRF 993 III CRF 99

CET 407.1 CET 407.2	Students will	be enabled to understand the nature and obi	ective of Technical Communication relevant for the w	ork place as Engineers		
			s of Technical Communication and its exposure in vari			
CET 407.3			hance confidence in face of diverse audience.			
CET 407.4			now of the application of the learning to promote their			
CET 407.5	It would enal BRANCH:	le them to evaluate their efficacy as fluent &	k efficient communicators by learning the voice dynam CE /B.Tech II	iics.	SESSION:	2023-24
	COURSE:	B.TECH- CE	YEAR:	Ш	SEMESTER:	IV
	SUBJECT:		Basic Structure Analysis		SUBJECT CODE:	CET 004
			COURSE O	UTCOMES (CO)		
CO #				CO STATEMENT		
CET 404.1			ally determinate structural systems using energy meth-			
CET 404.2			ermination of deflection of statically determinate beam nergy method and method of consistent deformation	s, frames & pin jointed trusses		
CET 404.3 CET 404.4		moving loads and influence lines	ergy method and method of consistent deformation			
CET 404.5		Statically determinate and indeterminate sus	pension bridges and arches			
	BRANCH:		CE /B.Tech II		SESSION:	2023-24
	COURSE:	B.TECH- CE	YEAR:	н	SEMESTER:	IV
	SUBJECT:		Basic Structure Analysis lab		SUBJECT CODE:	CEP 005
			COURSE O	UTCOMES (CO)		
CO #	771 1 .			CO STATEMENT		
CEP 405.1 CEP 405.2		will be able to distinguish between statically will be able to apply equations of equilibrium				
CEP 405.3		will be able to draw the shear force and bendi				
CEP 405.4		will be able to calculate the internal forces in				
CEP 405.5	The student v	will be able to calculate the deflections of true				
			CE /B.Tech II		SESSION:	2023-24
	COURSE:	B.TECH- CE	YEAR:	11	SEMESTER:	IV
	SUBJECT:		Fluid Mechanics		SUBJECT CODE:	CET 006
CO#			COURSE O	UTCOMES (CO) CO STATEMENT		
CET 406.1	Understand +	he broad principles of fluid statics, kinematic	cs and dynamics	SO STATEMENT		
CET 406.1 CET 406.2		lefinitions of the basic terms used in fluid me				
CET 406.2		lassifications of fluid flow				
CET 406.4		ply the continuity, momentum and energy pr	inciples			
CET 406.5		ply dimensional analysis				
	0010		CE /B.Tech II		SESSION: SEMESTER:	2023-24
	COURSE: SUBJECT:	B.TECH- CE	YEAR:	п	SEMESTER: SUBJECT CODE:	IV CEP 006
	JUBRENT:		Concrete Technology lab	UTCOMES (CO)	SUBJECT CODE:	CEL 000
CO #			COURSEO	CO STATEMENT		
CEP 406.1	Perform diffe	rent tests conducted on aggregate and concre	ete at site.			
CEP 406.2		destructive test on concrete.				
CEP 406.3	Design the co	oncrete mix as per the site conditions and spe	cification of materials available there.			
CEP 406.4		arious properties of admixtures on concrete.				
CEP 406.5	Understand t	he effect of water cement ratio on concrete.				
	COURSE:	B.TECH- CE	CE /B.Tech III YEAR:	ш	SESSION: SEMESTER:	2023-24 V
	SUBJECT:	B.TECH-CE	Design Of RC Elements		SUBJECT CODE:	BCET 501
				UTCOMES (CO)		
CO #			COURSECT	CO STATEMENT		
CET 501.1	Students will	understand the general mechanical behaviou	ar of reinforced concrete.			
CET 501.2	Students will	be able to analyze and design reinforced cor	screte flexural members.			
CET 501.3	Student will	be able to analyze and design reinforced con-	crete compression members.			
CET 501.4		be able to analyze and design for vertical an				
CET 501.5	Students will	be able to analyze transfer and development	CE /B.Tech III		SESSION:	2023-24
	COURSE:	B.TECH- CE	YEAR:	ш	SEMESTER:	v
	SUBJECT:		Geotechnical Engineering		SUBJECT CODE:	BCET 502
			COURSE O	UTCOMES (CO)		
CO #				CO STATEMENT		
CET 502.1		il physical characteristics (including unit we				
CET 502.2 CET 502.3		e coefficient of permeability and equivalent l	hydraulic conductivity in stratified soil tigation, soil exploration program, soil exploration met	thode and soil identification in the	field	
CET 502.5		oncept of effective stress and determine stres			icu.	
CET 502.5			ear test method and interpret direct shear test results			
			CE /B.Tech III		SESSION:	2023-24
	COURSE:	B.TECH- CE	YEAR:	ш	SEMESTER:	v
	SUBJECT:		Fluid Mechanics		SUBJECT CODE:	BCET 503
CO #			COURSE O	UTCOMES (CO)		
CO # CET 503.1	Understand +	he broad principles of fluid statics, kinematic	es and dynamics	CO STATEMENT		
CET 503.1 CET 503.2		lefinitions of the basic terms used in fluid me				
CET 503.3	_	lassifications of fluid flow				
CET 503.4	Be able to ap	ply the continuity, momentum and energy pr	rinciples			
CET 503.5	Be able to ap	ply dimensional analysis				
	COURSE:	B.TECH- CE	CE /B.Tech III	ш	SESSION:	2023-24
	COURSE:	B.TECH- CE	YEAR:		SEMESTER: SUBJECT CODE:	V BCET 504 A
	SUBJECT				SUBJECT CODE:	DUL1 304 A
	SUBJECT:		Advance Strcture Analysis	UTCOMES (CO)		
	SUBJECT:			UTCOMES (CO) CO STATEMENT		
CO #		ctures using force method		UTCOMES (CO) CO STATEMENT		
CO # ET 504 A.1 ET 504 A.2	Analyze strue	ctures using force method tures using displacement method		UTCOMES(CO) CO STATEMENT		
CO # ET 504 A.1 ET 504 A.2 ET 504 A.3	Analyze struc Analyze struc Learn Clapey	tures using displacement method rrons theorem and its applications		UTCOMES (CO) CO STATEMENT		
CO # ET 504 A.1 ET 504 A.2 ET 504 A.3 ET 504 A.4	Analyze struc Analyze struc Learn Clapey Analyze struc	tures using displacement method prons theorem and its applications ctures using matrix methods		UTCOMES (CO) CO STATEMENT		
CO # ET 504 A.1 ET 504 A.2 ET 504 A.3 ET 504 A.4	Analyze struc Analyze struc Learn Clapey Analyze struc	tures using displacement method rrons theorem and its applications	COURSE OF	UTCOMES (CO) CO STATEMENT	stany.	3831.54
CO # ET 504 A.1 ET 504 A.2 ET 504 A.3 ET 504 A.4 ET 504 A.5	Analyze struc Analyze struc Learn Clapey Analyze struc	tures using displacement method prons theorem and its applications ctures using matrix methods		UTCOMES (CO) CO STATEMENT	SESSION: SUMESTER:	2023-24 V
CO # ET 504 A.1 ET 504 A.2 ET 504 A.3 ET 504 A.4 ET 504 A.5	Analyze struc Analyze struc Learn Clapey Analyze struc Analyze struc	tures using displacement method rons theorem and its applications ctures using matrix methods ctures using plastic analysis	COURSE OF	CO STATEMENT		
CO # ET 504 A.1 ET 504 A.2 ET 504 A.3 ET 504 A.4 ET 504 A.5	Analyze struc Analyze struc Learn Clapey Analyze struc Analyze struc	tures using displacement method rons theorem and its applications ctures using matrix methods ctures using plastic analysis	COURSE OF CE/R.Tech III VEAR: Transportation Engineering -11	CO STATEMENT	SEMESTER:	v
CO # ET 504 A.1 ET 504 A.2 ET 504 A.3 ET 504 A.4 ET 504 A.5	Analyze struc Analyze struc Learn Clapey Analyze struc Analyze struc COURSE: SUBJECT:	tures using displacement method rons theorem and its applications ctures using matrix methods ctures using plastic analysis	COURSE OF CE/R.Tech III VEAR: Transportation Engineering -11	CO STATEMENT	SEMESTER:	v
CO # ET 504 A.1 ET 504 A.2 ET 504 A.3 ET 504 A.4 ET 504 A.5 CO # DEC 505 B.1	Analyze struc Analyze struc Learn Claegy Analyze struc Analyze struc COURSE: SUBJECT:	tures using displacement method rrons flevorem and its applications tures using matrix methods ctures using plastic analysis B.TECH-CE B.TECH-CE	COURSE OF CE.R.TeshIII YEAN: Transportation Engineering -II COURSE OF	CO STATEMENT III UTCOMES (CO)	SEMESTER:	v
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CO #				SUBJECT CODE:	BCET 602
CO#		Environmental Engineering- 1 COURSE OU	TCOMES (CO)		
			CO STATEMENT		
· · · · ·	ound understanding of different sources of wa the different methods used to calculate water				
	ent plumbing methods to transport water to di				
	t wastewater and its physical, chemical & biol				
	rent types of sewers and its layout.	ogical aspects.			
		CE /B.Tech III		SESSION:	2023-24
COURSE:	B.TECH- CE	YEAR:	ш	SEMESTER:	VI
SUBJECT:		Open Channel Flow		SUBJECT CODE:	BCET 603
		COURSE OU	TCOMES (CO)		
CO #			CO STATEMENT		
	e open channel flow problems through the sele				
CET 603.2 An ability to a	pply your knowledge of mathematics, science	, and engineering in fow calculations.			
	se the techniques, skills, and modern engineer				
		nps, surges, and critical, uniform, and gradually-varyi			
CET 603.5 Ability to expl	ain and apply mathematical relationships for l	hydraulic jumps, surges, and critical, uniform, and gr	adually-varying flows		
		CE /B.Tech III		SESSION:	2023-24
COURSE: SUBJECT:	B.TECH- CE	YEAR:	ш	SEMESTER: SUBJECT CODE:	VI BCET 604 A
SUBJECT:		Geotechnical Engineering-II	TOOLES (CO)	SUBJECT CODE.	DCEI 004 A
CO#		COURSEOU	TCOMES (CO)		
	ring capacity of soil and retaining wall.		COSTATEMENT		
	settlement of different type of foundation				
		on program, soil exploration methods and soil identifi	cation in the field.		
	ective stress and determine stress distribution v				
		ar test method and interpret direct shear test results.			
	<i>Q</i> /	CE /B.Tech III		SESSION:	2023-24
COURSE:	B.TECH- CE	YEAR:	ш	SEMESTER:	VI
SUBJECT:		Principles Of Management		SUBJECT CODE:	BCET 605 A
			TCOMES (CO)		
CO #			CO STATEMENT		
	on of the course, students will be able to have	e clear understanding of managerial functions like pla	nning, and have same basic knowled	lge on international aspect of management	
ET 605 A.2 To understand	the planning process in the organization				
	the concept of organization				
	he ability to directing, leadership and commur				
ET 605 A.5 To analysis iso	plate issues and formulate best control method				
		CE /B.Tech IV		SESSION:	2023-24
COURSE: SUBJECT:	B.TECH- CE	YEAR:	IV	SEMESTER:	VII
SUBJÉCT:		Environmental Engineering II		SUBJECT CODE:	BCET 701
20.4		COURSE OU	TCOMES (CO)		
CO#			CO STATEMENT		
	he students to the area of water and wastewate				
	Il cover water chemistry; characteristics of wa i solid waste management and its disposal.	ater & wastewater; primary, secondary & tertiary treat	tment processes.		
	t knowledge of Industrial waste that causes p	-Notice on lane basis			
	t purification of wastewater and its usage for v				
CET /01.5 To learn about	purification of wastewater and its usage for v	CE /B.Tech IV		SESSION:	2023-24
COURSE:	B.TECH- CE	YEAR:	IV	SEMESTER:	VII
SUBJECT:		Design Of Steel Structures		SUBJECT CODE:	BCET 702
			TCOMES (CO)		
CO#			CO STATEMENT		
CET 702.1 Identify and co	ompute the design loads on a typical steel build	ding.			
CET 702.2 Able to identif	y and interpret the appropriate relevant indust	try design codes.			
CET 702.3 Identify the dif	Count Calling and day of stard terrains and some	pression members and beams, and compute their desig	gn strengths.		
CET /02.5 Identify the dif	terent faiture modes of steel tension and comp	pression members and beams, and compute men desig			
CET 702.4 Students will b	e able to check and specify the serviceability	requirements of the designed steel structures.			
Students will b	e able to check and specify the serviceability	requirements of the designed steel structures. nnections, and determine their design strengths.			
CET 702.4 Students will b CET 702.5 Identify the dif	e able to check and specify the serviceability freent failure modes of bolted and welded con	requirements of the designed steel structures. nnections, and determine their design strengths. CE /B.Tech IV		SESSION:	2023-24
CET 702.4 Students will b CET 702.5 Identify the dif COURSE:	e able to check and specify the serviceability	requirements of the designed steel structures. nnections, and determine their design strengths. CE /B.Tech IV YEAR:	IV	SEMESTER:	VII
CET 702.4 Students will b CET 702.5 Identify the dif	e able to check and specify the serviceability freent failure modes of bolted and welded con	requirements of the designed steel structures. nections, and determine their design strengths. CE /B. Tech IV VEAR: Ground water Engineeirng			
CET 702.4 Students will b CET 702.5 Identify the dif COURSE: SUBJECT:	e able to check and specify the serviceability freent failure modes of bolted and welded con	requirements of the designed steel structures. nections, and determine their design strengths. CE /B. Tech IV VEAR: Ground water Engineeirng	TCOMES (CO)	SEMESTER:	VII
CET 702.4 Students will b CET 702.5 Identify the dif COURSE: SUBJECT: CO #	e able to check and specify the serviceability fferent failure modes of bolted and welded con B.TECH-CE	requirements of the designed steel structures. nections, and determine their design strengths. CE (B.Teels IV VEAR: Ground water Engineeirng COURSE OUT	TCOMES (CO) CO STATEMENT	SEMESTER: SUBJECT CODE:	VII
CET 702.4 Students will b CET 702.5 Identify the dif COURSE: SUBJECT: CO # ET 703 C.1 Understand the	e able to check and specify the serviceability ferent failure modes of bolted and welded con B.TECH-CE : porous medium properties that control groun	requirements of the designed ated structures. meetions, and determine their design strengths. CF. B. Tech IV VEAN: Ground water Engineering COURSEON modwater flow and transport, including porosity, hydrai	TCOMES (CO) CO STATEMENT	SEMESTER: SUBJECT CODE:	VII
CET 702.4 Students will b CET 702.5 Identify the dif CURSE: SUBJECT: CO# ET 703 C.1 Understand the ET 703 C.2 Derive effectiv	e able to check and specify the serviceability fierent fuilure modes of bolted and welded con B.TECH-CE porcus medium properties that control groun e hydraulic conductivity for various cases of	requirements of the designed steed structures. CE /B.Tesh IV VEAR: Ground water Engineering COURSE OU Movater flow and transport, including porosity, hydral heterogeneous subsurface formations.	TCOMES (CO) CO STATEMENT	SEMESTER: SUBJECT CODE:	VII
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BCET 803 A.5 Distribution systems for canal irrigation and the basics of design of unlined and lined irrigation canals design.								
		CE /B.Tech IV				SESSION:	2023-24	
c	OURSE:	B.TECH- CE	YEAR:	IV		SEMESTER:	VIII	
s	UBJECT:	Hydropower Engineering				SUBJECT CODE:	BOEC 804 A	
	COURSE OUTCOMES (CO)							
CO #		CO STATEMENT						
BOEC 804 A.1	Students will get the understanding of different types of hydropower schemes and their purposes.							
BOEC 804 A.2	Students will get to learn how to plan and design the different types of hydraulic structures.							
BOEC 804 A.3	OEC 804.A.3 Student will learn concepts and aspects of Location, components Structures involved in a Hydropower plant.							
BOEC 804 A.4	Student will have proper understanding of various appurtenances used in any Hydro project.							
BOEC 804 A.5	Students will learn about how electricity is transferred & distributed from hydro power plant.							
BOEC 804 A.5	BOEC 804 A.S Students will learn about how electricity is transferred & distributed from hydro power plant.							