March Marc	BRA	ANCH:		CE /B.Tech II		SESSION:	2024-25		
Companies Comp	COURSE:		B.TECH- CE						
## CONTACT NOT CONTACT CONTAC	SUBS	SECT:			OT/MOOTENG (OO)	SUBJECT CODE:	AH1 000		
## PRINCES Prince	CO #			COURSE					
Ministry Section Sec		Remember the	concept of Laplace transform and apply in sol	lving real life problems.	COSTATEMENT				
ELT 1945									
Mart									
Note					_				
Part									
Part			concept of correlation, regression, moments,						
Part			B.TECH- CE		II				
## CONTRINENT 1979	SUBJ	JECT:					AHT 008		
PLT 1982				COURSE					
Mart		Studente ere er	mostad to become more every of themselves	and their curroundings (family, society, nature)	COSTATEMENT				
Mart 1988 1									
March Marc				g problems with sustainable solutions, while keep	ing human relationships and humar	nature in mind.			
Total Content Conten	BCET 308.3	They would ha	ve better critical ability.						
March Marc	BCET 308.4	They would al:	so become sensitive to their commitment toward	ards what they have understood (human values, hu	man relationship and human societ	y).			
Marie Mari	BCET 308.5	It is hoped that	t they would be able to apply what they have	learnt to their own self in different day-to- day set	tings in real life, at least a beginnin	g would be made in this direction.			
## CORNES OF TRANSPORT OF TRAN	BRA	ANCH:		CE /B.Tech II		SESSION:	2024-25		
Concess Conc	COU	JRSE:	B.TECH- CE	YEAR:	II	SEMESTER:	III		
## COSITIENDS Compact Compact Compact CosiTIENDS Compact CosiTIENDS Compact CosiTIENDS Compact CosiTIENDS CosiT	SUBJ	JECT:		Construction Materials		SUBJECT CODE:	CET 001		
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Ext. 13					CO STATEMENT				
RET 913 Section and the enterpreting of enterous and properties of invested properties of an invested properties and an inv	BCET 301.1	Compare the p	roperties of most common and advanced buil-	ding materials.					
Part 13 13 13 13 13 13 13 13		understand the	typical and potential applications of these m	aterials					
1810-1912 1810-									
ACCURSION CONTRACTOR CONT									
NAME			properties of low cost and advanced material						
Column			B WEGH, CH						
CO S			B.IECH- CE		п				
COS TATEWORK Subset	SUBS				OUTCOMES (CO)	JOBALCT CODE.	CL: 001		
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SECT 941.2 Students will be alto enclosed various types of properties of fitness.		Students will	be able to understand characteristics of variou	s types of building stone.	OO OTATEMENT				
ECEP 3143 Solution will what the contentined various tipes of propriets of content									
SECT 99.1.5 Surfaces will be able to understand characteristics of various types of flusher									
Sufficiency will be able to understand characterisates of various types of Administrators. Surveying Subject to 10 SUNISTIES III		+							
SECTIONS: SINGER STRICE Surveying SURVEY SUR									
COURS DIVICOUIS CO CO COURS DIVICOUIS CO CO CO CO CO CO CO CO						SESSION:	2024-25		
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CO CO STATEMENT			B.TECH* CE	YEAR:	II .	SEMESTER:	III		
RCT 192.1 Learn chain survey, compass survey. Theodolite survey, levelling, error calculation & adjustment and ECT 192.2 Case Interior move curves are plotted and continued for highways and railway projects			B.TECIP CE	Surveying					
BCTT 92.22 Came how cares are plotted and continued for highways and railway projects BCTT 32.42 Confesting driver interviews like Digital Theodolite, Anta Level, EDM, Total station BCTT 32.42 Confesting driver with season and the Digital Theodolite, Anta Level, EDM, Total station BCTT 32.42 Confesting driver with season and season an	SUB-		BIECH CE	Surveying	OUTCOMES (CO)				
BCET 302.3 Use latest instruments like Digital Theodolits, Anto Level, EDM, Teol station	CO#	JECT:		Surveying COURSE	OUTCOMES (CO)				
BCET 302.5 Understand about various intended of plane table surveying and its importance in survey. SCENICY SCENICY SCENICY SCENICY SCENICY SUBJECT CODE CEPT 902. CE	CO # BCET 302.1	Learn chain su	rvey, compass survey, Theodolite survey , levvey	Surveying COURSE elling, error calculation & adjustment and	OUTCOMES (CO)				
BCET 302.5 Understand about various types of errors in surveying and how to rectify them: CCURNS:	CO # BCET 302.1 BCET 302.2	Learn chain su	rvey, compass survey, Theodolite survey, lev ves are plotted and constructed for highways a	Surveying COURSE elling, error calculation & adjustment and and railway projects	OUTCOMES (CO)				
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	CO# BCET 302.1 BCET 302.2 BCET 302.3 BCET 302.4 BCET 302.4 BCET 302.5 BRA COU SUB: CO# BCEP 302.2 BCEP 302.2 BCEP 302.3 BCEP 302.3 BCEP 302.3 BCEP 302.3 BCEP 302.4 BCEP 302.3 BCEP 302.4 BCEP 303.4 BCET 303.5 BRA COU SUB: CO# BCEP 303.1 BCET 303.4 BCET 303.4 BCET 303.4 BCET 303.5 BRA COU SUB: CO# BCEP 303.1 BCEP 303.1 BCEP 303.1 BCEP 303.1 BCEP 303.2 BCEP 303.3	Learn chain su Learn how cur Use latest instr Understand th Understand th Understand so NCH: The student wi The student will will student wi The student will student w	rvey, compass survey. Theodolite survey, leve are plotted and constructed for highways i uments like Digital Theodolite, Auto Level, E various methods of plane table surveying an out various types of errors in surveying and he B.TECH-CE Ill be able to develop methods through the knotill be able to determine the distance and angle ill be able to determine the distance and angle ill be able to determine the relative position o ill be able to set out curves. B.TECH-CE B.TECH-CE B.TECH-CE B.TECH-CE B.TECH-CE B.TECH-CE B.TECH-CE B.TECH-CE	COURSE could station dis importance in survey. where the stresses and distributed by the combined stresses by application of Moders of Combined Stresses and definition of Loads; solve for stresses and stresses and strains for different materials and solve for stresses and strains for different materials and solve for stresses and strains for different materials and solve for stresses and strains for different materials and solve for stresses and strains for different materials and solve for stresses and strains for different materials and solve for stresses and strains for different materials and solve for stresses and strains for different materials and solve for stresses and strains for different materials and solve for stresses and strains for different	II OUTCOMES (CO) CO STATEMENT II OUTCOMES (CO) CO STATEMENT uipment's and use them in the field II OUTCOMES (CO) CO STATEMENT coke's law relationships; and perform r's circle of stress; locate the shear ections of beams under unsymmetric plems in bars and thin walled memb II OUTCOMES (CO) CO STATEMENT d strength of structural elements.	SUBJECT CODE: SENSION: SEMESTER: SUBJECT CODE: SEMESTER: SUBJECT CODE: acalculations, relative to the strength and stabilics problems using classical methods and energenter of thin wall beams; cal loading; apply various failure criteria for getrs; SESSION: SEMESTER:	2024-25 III CEP 002 2024-25 III CEP 002 2024-25 III CET 003 litity of structures and mechanical components; ay methods; meral stress states at points; 2024-25 III		
	CO# BCET 302.1 BCET 302.2 BCET 302.3 BCET 302.4 BCET 302.5 BRA COU SUBJ CO# BCEP 302.1 BCEP 302.1 BCEP 302.2 BCEP 302.3 BCEP 302.3 BCEP 302.4 BCEP 302.5 BRA COU SUBJ CO# BCEP 302.4 BCEP 302.4 BCEP 302.5 BRA COU SUBJ CO# BCET 303.1 BCET 303.1 BCET 303.3 BCET 303.3 BCET 303.3 BCET 303.4 BCEP 303.3 BCEP 303.3 BCEP 303.3 BCEP 303.1 BCEP 303.3	Learn chain su Learn how cur Use latest instr Understand th Understand th Understand as NCH: The student w	rvey, compass survey, Theodolite survey, leve are plotted and constructed for highways a unents like Digital Theodolite, Auto Level, E evarious methods of plane table surveying and but various types of errors in surveying and he B.TECH-CE Il be able to develop methods through the kind ill be able to determine the distance and angle ill be able to determine the relative position of ill be able to prepare a map or plan to represent ill be able to set out curves. B.TECH-CE B.TECH-CE B.TECH-CE B.TECH-CE B.TECH-CE B.TECH-CE	COURSE COURSE	II OUTCOMES (CO) CO STATEMENT II OUTCOMES (CO) CO STATEMENT uipment's and use them in the field II OUTCOMES (CO) CO STATEMENT coke's law relationships; and perform r's circle of stress; locate the shear ections of beams under unsymmetric plems in bars and thin walled memb II OUTCOMES (CO) CO STATEMENT d strength of structural elements.	SUBJECT CODE: SENSION: SEMESTER: SUBJECT CODE: SEMESTER: SUBJECT CODE: acalculations, relative to the strength and stabilics problems using classical methods and energenter of thin wall beams; cal loading; apply various failure criteria for getrs; SESSION: SEMESTER:	2024-25 III CEP 002 2024-25 III CEP 002 2024-25 III CET 003 litity of structures and mechanical components; ay methods; meral stress states at points; 2024-25 III		

BRANC	CH:		CE/B.Tech II		SESSION:	2024-25
COURS		B.TECH- CE	YEAR:	II	SEMESTER:	III
SUBJE			Python		SUBJECT CODE:	CST 005
502315				SE OUTCOMES (CO)		
CO#			COUR	CO STATEMENT		
	Danielan arran	dial and a second a	sing annual librature	COSTATEMENT		
		itial programming skills in computer programm				
		on syntax and semantics and be fluent in the us				
		process of structuring the data using lists, tuples				
		using built-in functions and operations to navig				
	-	oncepts of modules and user-defined functions	-			
BRANC			CE /B.Tech II		SESSION:	2024-25
COURS		B.TECH- CE	YEAR:	п	SEMESTER:	IV
SUBJE	ECT:		Data Structures		SUBJECT CODE:	CST 006
			COURS	SE OUTCOMES (CO)		
CO#				CO STATEMENT		
BCET 406.1	Compare funct	tions using asymptotic analysis and describe the	e relative merits of worst-case, average-case, a	and bestcase analysis.		
BCET 406.2 E	Become famili	ar with a variety of sorting algorithms and their	r performance characteristics (e.g., running tir	ne, stability, space usage) and be able t	o choose the best one under a variety of requiremen	ts.
BCET 406.3 U	Understand an	d identify the performance characteristics of fu-	indamental algorithms and data structures and	be able to trace their operations for pro-	oblems such as sorting, searching, selection, operation	ons on numbers, and graphs.
BCET 406.4 S	Solve real-wor	ld problems using arrays, stacks, queues, and li	inked lists.			
BCET 406.5 E	Become famili	ar with the major graph algorithms and their an	nalyses. Employ graphs to model engineering	problems when appropriate.		
BRANC			CE /B.Tech II		SESSION:	2024-25
COURS	SE:	B.TECH- CE	YEAR:	п	SEMESTER:	IV
SUBJE	CT:		Technical Communication		SUBJECT CODE:	AHT 007
			COURS	SE OUTCOMES (CO)		
CO#			3000	CO STATEMENT		
	Students will	be enabled to understand the nature and objecti	tive of Technical Communication relevant for			
		utilize the technical writing for the purposes of				
		ld imbibe inputs by presentation skills to enhan				
		amunication skills will create a vast know-how		their technical competence		
		le them to evaluate their efficacy as fluent & eff				
BRANC BRANC		and the chicacy as nuclin & en	CE/B.Tech II	,	SESSION:	2024-25
COURS		B.TECH- CE	YEAR:	II	SEMESTER:	IV
SUBJE		MARCAP CE	Basic Structure Analysis		SUBJECT CODE:	CET 004
SUBJE				SE OUTCOMES (CO)	JOBSEL CODE.	CD 1 004
CC #			Cours			
CO # BCET 404.1	Analysis	es and study displacement response of statically	y determinate structural contents	CO STATEMENT		
		ally indeterminate structures using strain energy				
		noving loads and influence lines	w			
		statically determinate and indeterminate suspens	sion bridges and arches			
BRANC		and made man in the support	CE/B.Tech II		SESSION:	2024-25
COURS		B.TECH- CE	YEAR:	п	SEMESTER:	IV
SUBJE	CT:		Basic Structure Analysis lab		SUBJECT CODE:	CEP 005
			COURS	SE OUTCOMES (CO)		
CO#			COURS	SE OUTCOMES (CO) CO STATEMENT		
	The student w	rill be able to distinguish between statically det				
BCEP 405.1			terminate and indeterminate structures.			
BCEP 405.1 BCEP 405.2	The student w	rill be able to distinguish between statically dete rill be able to apply equations of equilibrium to rill be able to draw the shear force and bending	terminate and indeterminate structures. o structures and compute the reactions.			
BCEP 405.1 BCEP 405.2 BCEP 405.3	The student w	rill be able to apply equations of equilibrium to	terminate and indeterminate structures. estructures and compute the reactions. g moment diagrams.			
BCEP 405.1 BCEP 405.2 BCEP 405.3 BCEP 405.4	The student w The student w The student w	rill be able to apply equations of equilibrium to rill be able to draw the shear force and bending	terminate and indeterminate structures. estructures and compute the reactions. g moment diagrams. ble and arch type structures.			
BCEP 405.1 BCEP 405.2 BCEP 405.3 BCEP 405.4	The student w The student w The student w	rill be able to apply equations of equilibrium to rill be able to draw the shear force and bending rill be able to calculate the internal forces in calculate	terminate and indeterminate structures. estructures and compute the reactions. g moment diagrams. ble and arch type structures.		SESSION:	2024-25
BCEP 405.1 BCEP 405.2 BCEP 405.3 BCEP 405.4	The student w The student w The student w The student w	rill be able to apply equations of equilibrium to rill be able to draw the shear force and bending rill be able to calculate the internal forces in calculate	terminate and indeterminate structures. to structures and compute the reactions. g moment diagrams. ble and arch type structures. structures, beams, and portal frames		SESSION: SEMESTER:	2024-25 IV
BCEP 405.1 BCEP 405.2 BCEP 405.3 BCEP 405.4 BCEP 405.5	The student w	ill be able to apply equations of equilibrium to ill be able to draw the shear force and bending ill be able to calculate the internal forces in eab ill be able to calculate the deflections of truss s	terminate and indeterminate structures. structures and compute the reactions. g moment diagrams. ble and arch type structures. structures, beams, and portal frames CE/B.Tech II	CO STATEMENT		
BCEP 405.1 BCEP 405.2 BCEP 405.3 BCEP 405.4 BCEP 405.5 COURS	The student w	ill be able to apply equations of equilibrium to ill be able to draw the shear force and bending ill be able to calculate the internal forces in eab ill be able to calculate the deflections of truss s	terminate and indeterminate structures. structures and compute the reactions. moment diagrams. ble and arch type structures. structures, beams, and portal frames CE/B.Tech II YEAR: Fluid Mechanics	CO STATEMENT	SEMESTER:	IV
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BCEP 405.1 BCEP 405.2 BCEP 405.3 BCEP 405.4 BCEP 405.5 COURS SUBJE	The student w CCT:	ill be able to apply equations of equilibrium to ill be able to draw the shear force and bending ill be able to calculate the internal forces in cabill be able to calculate the deflections of truss s B.TECH-CE	terminate and indeterminate structures. b structures and compute the reactions. g moment diagrams. ble and arch type structures. structures, beams, and portal frames CE/B.Tech II YEAR: Fluid Mechanics COURS	CO STATEMENT	SEMESTER:	IV
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			CE /B.Tech III	-	SESSION:	2024-25		
	JRSE:	B.TECH- CE	YEAR:	Ш	SEMESTER:	V		
SUB	JECT:		Advance Structure Analysis	COMEC (CO)	SUBJECT CODE:	CET 009		
CO#			COURSE OUT	CO STATEMENT				
CET 009.1	Analyze struct	ure susing force method		OO OTATEMENT				
CET 009.2	Analyze structure susing displacement method							
CET 009.3	learn Clapeyro	ns theorem and its applications						
CET 009.4	Analyze struct	ures using matrix methods						
CET 009.5	Analyze struct	ures using plastic analysis						
			CE /B.Tech III		SESSION:	2024-25		
	JRSE: JECT:	B.TECH- CE	YEAR:		SEMESTER: SUBJECT CODE:	V CET 011		
SUB	JEC1:		Engg. Geology COURSE OUT	COMES (CO)	SUBJECT CODE:	CETOIL		
CO#				CO STATEMENT				
CET 011.1	Understand sc	ope of engineering geology and identify diff	erent types of rocks, minerals and building stones.					
CET 011.2								
CET 011.3		ological concepts and approaches of weather						
CET 011.4		e structural geology terms like dip, strike, joi	ints and learn about earthquake.					
CET 011.5	Understand ge	ographical concepts and terminology.	CE DE LW		areator.	2024-25		
COL	JRSE:	B.TECH- CE	CE /B.Tech III YEAR:	III	SESSION: SEMESTER:	V V		
	JECT:	B.TECH- CE	Safety Mangement in construction		SUBJECT CODE:	CET 015		
			COURSE OUT	COMES (CO)				
CO#				CO STATEMENT				
CET 015.1	explain the th	eoretical foundation for the different method	ds and tools in use to identify, analyse and evaluate accid	lent risks and remedial actions				
CET 015.2	choose and as	sess appropriate methods and tools for a syst	tematic and efficient accident prevention work in industr	rial organisations and projects.				
CET 015.3		sess efficient preventive measures and argue						
CET 015.4		ccidents happen by use of different theoretic						
CET 015.5	explain the pr	inciples for experience feedback and learning	g from unwanted occurrences. CE/B.Tech III		SESSION:	2024-25		
COL	JRSE:	B.TECH- CE	CE /B.Tech III YEAR:	Ш	SESSION: SEMESTER:	2024-25 V		
	JECT:	B.IECH-CE	Constitution of India		SEMESTER: SUBJECT CODE:	V AHT 009		
			COURSE OUT	COMES (CO)		···		
CO#				CO STATEMENT				
AHT 009.1	Understand th	ne basic knowledge and salient features of In-	dian Constitution.					
AHT 009.2		xplore the basic features and modalities about						
AHT 009.3		<u> </u>	ship, Fundamental Rights, DPSP and Fundamental dutie	es.				
AHT 009.4		and relate the functioning of Indian parliame	<u> </u>					
AHT 009.5	Differentiate	different aspects of Indian Legal System and	CE/B.Tech III		SESSION:	2024-25		
COL	JRSE:	B.TECH- CE	YEAR:	III	SEMESTER:	V		
	JECT:		Essence of Indian traditional Knowledge		SUBJECT CODE:	AHT 010		
			COURSE OUT	COMES (CO)				
CO#				CO STATEMENT				
AHT 010.1		ne concept of Traditional knowledge and its						
AHT 010.2		d and importance of protecting traditional kr						
AHT 010.3 AHT 010.4		ious enactments related to the protection of t ne concepts of Intellectual property to protect						
AHT 010.5		tribution of scientists of different areas.	the traditional knowledge.					
			CE /B.Tech III		SESSION:	2024-25		
	JRSE:	B.TECH- CE	YEAR:	Ш	SEMESTER:	VI		
SUB	JECT:		Transportation Engineering		SUBJECT CODE:	CET 016		
			COURSE OUT					
CO # CET 016.1				CO STATEMENT				
CET 016.1		eys involved in planning and highway alignr ometric elements of highways and expresswa						
CET 016.3			and control measures and intersection design.					
CET 016.4		avement materials.						
CET 016.5	Design flexible	e and rigid pavements as per Indian Roads C						
			CE/B.Tech III		SESSION:	2024-25		
	JRSE: JECT:	B.TECH- CE	YEAR:		SEMESTER: SUBJECT CODE:	VI CET 017		
SUB	C1:		Design Of Steel Structures COURSE OUT	COMES (CO)	SUBJECT CODE:	CE1 017		
CO#				CO STATEMENT				
CET 017.1	Identify and co	ompute the design loads on a typical steel bu						
CET 017.2	Able to identif	ly and interpret the appropriate relevant indu	stry design codes.					
CET 017.3			mpression members and beams, and compute their design	strengths.				
CET 017.4			ry requirements of the designed steel structures.					
	eld-maid-ab- di-	terent failure modes of bolted and welded co	onnections, and determine the design strengths. CE /B.Tech III		CESSION.	2024-25		
CET 017.5	identify the di				SESSION: SEMESTER:	2024-25 VI		
	-	R.TECH- CF		III				
cot	JRSE: JECT:	B.TECH- CE	YEAR: Environmental Engineering	ш	SUBJECT CODE:	CET 018		
cot	JRSE:	B.TECH- CE	YEAR:					
CO#	JRSE:	в.тесн- се	YEAR: Environmental Engineering COURSE OUT					
CO# CET 018.1	JRSE: JECT: Be able to idea	ntify and value the effect of the pollutants on	Environmental Engineering COURSE OUT the environment: atmosphere, water and soil.	COMES (CO)				
CO # CET 018.1 CET 018.2	Be able to idea Be able to plan	ntify and value the effect of the pollutants on a strategies to control, reduce and monitor ai	Environmental Engineering COURSE OUT a the environment: atmosphere, water and soil. ir and water pollution.	COMES (CO)				
CO# CO# CET 018.1 CET 018.2 CET 018.3	Be able to idea Be able to plan Be able to selections	ntify and value the effect of the pollutants on strategies to control, reduce and monitor ai ct the most appropriate technique for the trea	Environmental Engineering COURSE OUT a the environment: atmosphere, water and soil. ar and water pollution. atment of water.	COMES (CO)				
CO# CET 018.1 CET 018.2 CET 018.3 CET 018.4	Be able to idea Be able to plan Be able to sele Be able to des	ntify and value the effect of the pollutants on a strategies to control, reduce and monitor ai ct the most appropriate technique for the tree ign various treatment units for water treatme	Environmental Engineering COURSE OUT a the environment: atmosphere, water and soil. ar and water pollution. atment of water.	COMES (CO)				
CO# CO# CET 018.1 CET 018.2 CET 018.3	Be able to idea Be able to plan Be able to sele Be able to des	ntify and value the effect of the pollutants on strategies to control, reduce and monitor ai ct the most appropriate technique for the trea	Environmental Engineering COURSE OUT a the environment: atmosphere, water and soil. ar and water pollution. atment of water.	COMES (CO)				
COU # CET 018.1 CET 018.2 CET 018.3 CET 018.4 CET 018.5	Be able to idea Be able to plan Be able to sele Be able to des Apply samplin	ntify and value the effect of the pollutants on a strategies to control, reduce and monitor ai ct the most appropriate technique for the tree ign various treatment units for water treatme	Environmental Engineering COURSE OUT the environment: atmosphere, water and soil. ir and water pollution. atment of water. int.	COMES (CO)	SUBJECT CODE:	CET 018		
COU # CET 018.1 CET 018.2 CET 018.3 CET 018.4 CET 018.5	Be able to idea Be able to sele Be able to sele Be able to des Apply samplin	ntify and value the effect of the pollutants on strategies to control, reduce and monitor ai ct the most appropriate technique for the tree ign various treatment units for water treatme g techniques for water, air and noise.	Environmental Engineering COURSE OUT a the environment: atmosphere, water and soil. ir and water pollution. atment of water. int. CE/B.Teeh III	COMES (CO) CO STATEMENT	SUBJECT CODE: SESSION:	CET 018 2024-25		
COU SUB CO # CET 018.1 CET 018.2 CET 018.3 CET 018.4 CET 018.5 COU	Be able to idea Be able to plan Be able to sele Be able to des Apply samplin	ntify and value the effect of the pollutants on strategies to control, reduce and monitor ai ct the most appropriate technique for the tree ign various treatment units for water treatme g techniques for water, air and noise.	Environmental Engineering COURSE OUT the environment: atmosphere, water and soil. ir and water pollution. atment of water. int. CE/B.Tech III YEAR: Foundation Engineering COURSE OUT COURSE OUT COURSE OUT	COMES (CO) CO STATEMENT III COMES (CO)	SUBJECT CODE: SESSION: SEMESTER:	CET 018		
CO # CET 018.1 CET 018.2 CET 018.3 CET 018.4 CET 018.5 COU	Be able to idea Be able to plan Be able to sele Be able to sele Be able to des Apply samplin	ntify and value the effect of the pollutants on a strategies to control, reduce and monitor ai ct the most appropriate technique for the tre- ign various treatment units for water treatme- g techniques for water, air and noise.	Environmental Engineering COURSE OUT a the environment: atmosphere, water and soil. ir and water pollution. atment of water. int. CE/B.Tech III YEAR: Foundation Engineering COURSE OUT	COMES (CO) CO STATEMENT III	SUBJECT CODE: SESSION: SEMESTER:	CET 018		
CO# CET 018.1 CET 018.2 CET 018.3 CET 018.4 CET 018.5 COU SUB	RSE: Be able to idea be able to plan Be able to sele Be able to des Apply samplin RSE: Determine the	ntify and value the effect of the pollutants on strategies to control, reduce and monitor ai ct the most appropriate technique for the trei gn various treatment units for water treatme g techniques for water, air and noise. B.TECH-CE earth pressures on foundations and retaining	Environmental Engineering COURSE OUT a the environment: atmosphere, water and soil. ir and water pollution. atment of water. int. CE/B.Tech III YEAR: Foundation Engineering COURSE OUT	COMES (CO) CO STATEMENT III COMES (CO)	SUBJECT CODE: SESSION: SEMESTER:	CET 018		
CO# CET 018.1 CET 018.2 CET 018.3 CET 018.4 CET 018.5 CO# CO# CO# CET 019.1 CET 019.1	Be able to idea be able to place. Be able to place Be able to place. Be able to dea Be able to d	ntify and value the effect of the pollutants on strategies to control, reduce and monitor ai et the most appropriate technique for the tre- ign various treatment units for water treatme g techniques for water, air and noise. B.TECH-CE earth pressures on foundations and retaining w and deep foundations.	TEAR: Environmental Engineering COURSE OUT the environment: atmosphere, water and soil. ir and water pollution. atment of water. int. CE/B.Tech III YEAR: Foundation Engineering COURSE OUT	COMES (CO) CO STATEMENT III COMES (CO)	SUBJECT CODE: SESSION: SEMESTER:	CET 018		
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CO			CE /B.Tech III	,	SESSION:	2024-25
COURSE:		B.TECH- CE	YEAR:	III	SEMESTER:	VI
SUE	BJECT:		Industrial Safety management		SUBJECT CODE:	AHT 013
]			COURSE OU	TCOMES (CO)		
CO#				CO STATEMENT		
AHT 013.1 AHT 013.2		ey aspects of industrial safety and mitigating t				
AHT 013.2		ous types of solution to problems arising in sa les of OSHA in controlling industrial disaster				
AHT 013.4		is Acts and Rules of industrial safety and haz				
AHT 013.5		erall performance of safety protocols of chemi				
			CE /B.Tech III		SESSION:	2024-25
	URSE:	B.TECH- CE	YEAR:	III	SEMESTER:	VI
SUI	BJECT:		Design Of Steel Structures lab		SUBJECT CODE:	CEP 014
00.0			COURSE OU	TCOMES (CO)		
CO # CEP 014.1	Identify and c	ompute the design loads on a typical steel bui	ilding	CO STATEMENT		
CEP 014.2			mpression members and beams, and compute their design	gn strengths.		
CEP 014.3			y requirements of the designed steel structures.			
CEP 014.4	Identify the di	fferent failure modes of bolted and welded co	onnections, and determine the design strengths.			
CEP 014.5	Students will	be able to read deatiled drawings of steel desi				_
	URSE:	B.TECH- CE	CE /B.Tech IV YEAR:	IV	SESSION: SEMESTER:	2024-25 VII
	BJECT:	B.IECH-CE	Environmental Engineering II	IV .	SUBJECT CODE:	BCET 701
				TCOMES (CO)		2001
CO#				CO STATEMENT		
BCET 701.1	To introduce	the students to the area of water and wastewa	ater treatment.			
BCET 701.2		*	water & wastewater; primary, secondary & tertiary treat	tment processes.		
BCET 701.3		at solid waste management and its disposal.	- Hotion on book book			
BCET 701.4 BCET 701.5		th knowledge of Industrial waste that causes tr purification of wastewater and its usage for				
2011/013	10 Kaili abot		CE /B.Tech IV		SESSION:	2024-25
CO	URSE:	B.TECH- CE	YEAR:	IV	SEMESTER:	VII
SUI	BJECT:		Design Of Steel Structures		SUBJECT CODE:	BCET 702
			COURSE OU	TCOMES (CO)		
CO#	T1 -00 -1		21.12	CO STATEMENT		
BCET 702.1 BCET 702.2		compute the design loads on a typical steel bu ify and interpret the appropriate relevant indu				
BCET 702.3			mpression members and beams, and compute their desi	ign strengths.		
BCET 702.4	Students will	be able to check and specify the serviceabilit	ty requirements of the designed steel structures.			
BCET 702.5	Identify the d	ifferent failure modes of bolted and welded o	connections, and determine their design strengths.			
COL	URSE:	B.TECH- CE	CE /B.Tech IV YEAR:	IV	SESSION: SEMESTER:	2024-25 VII
	BJECT:	Difference 2	Ground water Engineeirng		SUBJECT CODE:	BCET 703 C
	_			TCOMES (CO)		
CO#						
				CO STATEMENT		
BCET 703 C.1			oundwater flow and transport, including porosity, hydra		pility.	
BCET 703 C.2	Derive effecti	ive hydraulic conductivity for various cases of	f heterogeneous subsurface formations.		oility.	
BCET 703 C.2 BCET 703 C.3	Derive effecti Apply ground	ve hydraulic conductivity for various cases of dwater flow equations to confined and unconf	f heterogeneous subsurface formations.		oility.	
BCET 703 C.2	Derive effecti Apply ground Analyze pum	ive hydraulic conductivity for various cases of	f heterogeneous subsurface formations. fined aquifers.		vility.	
BCET 703 C.2 BCET 703 C.3 BCET 703 C.4 BCET 703 C.5	Derive effecti Apply ground Analyze pum Estimate trav	we hydraulic conductivity for various cases of lwater flow equations to confined and unconf p test data to determine aquifer properties. el times for groundwater contaminants in a sa	f heterogeneous subsurface formations. fined aquifers. CE/B.Tech IV	aulic conductivity, and compressil	SESSION:	2024-25
BCET 703 C.2 BCET 703 C.3 BCET 703 C.4 BCET 703 C.5	Derive effecti Apply ground Analyze pum Estimate trav	we hydraulic conductivity for various cases of dwater flow equations to confined and unconfined that to determine aquifer properties.	f heterogeneous subsurface formations. fined aquifers. CE/B.Tech IV YEAR:		SESSION: SEMESTER:	VII
BCET 703 C.2 BCET 703 C.3 BCET 703 C.4 BCET 703 C.5	Derive effecti Apply ground Analyze pum Estimate trav	we hydraulic conductivity for various cases of lwater flow equations to confined and unconf p test data to determine aquifer properties. el times for groundwater contaminants in a sa	f heterogeneous subsurface formations. fined aquifers. atturated aquifer. CE/B.Tech IV YEAR: Hydrology	aulic conductivity, and compressil	SESSION:	
BCET 703 C.2 BCET 703 C.3 BCET 703 C.4 BCET 703 C.5	Derive effecti Apply ground Analyze pum Estimate trav	we hydraulic conductivity for various cases of lwater flow equations to confined and unconf p test data to determine aquifer properties. el times for groundwater contaminants in a sa	f heterogeneous subsurface formations. fined aquifers. atturated aquifer. CE/B.Tech IV YEAR: Hydrology	aulic conductivity, and compressil	SESSION: SEMESTER:	VII
BCET 703 C.2 BCET 703 C.3 BCET 703 C.4 BCET 703 C.5	Derive effecti Apply ground Analyze pum Estimate travious OURSE: BJECT:	we hydraulic conductivity for various cases of lwater flow equations to confined and unconf p test data to determine aquifer properties. el times for groundwater contaminants in a sa	f heterogeneous subsurface formations. fined aquifers. CE /B.Tech IV VEAR: Hydrology COURSE OU	aulic conductivity, and compressii	SESSION: SEMESTER:	VII
BCET 703 C.2 BCET 703 C.3 BCET 703 C.4 BCET 703 C.5 COI SUE CO# BCET 704 A.1 BCET 704 A.2	Derive effecti Apply ground Analyze pum Estimate travi DURSE: Provide a bac Apply science	we hydraulic conductivity for various cases of lwater flow equations to confined and unconfuge test data to determine aquifer properties. el times for groundwater contaminants in a sa B.TECH-CE	f heterogeneous subsurface formations. fined aquifers. CE/B.Tech IV VEAR: Hydrology COURSE OU sees and their measurement. ent problems and to anticipate, mitigate and prevent fu	IV TCOMES (CO) CO STATEMENT	SESSION: SEMESTER: SUBJECT CODE:	VII
BCET 703 C.2 BCET 703 C.3 BCET 703 C.4 BCET 703 C.5 CO' SUB CO# BCET 704 A.1 BCET 704 A.2 BCET 704 A.3	Derive effecti Apply ground Analyze pum Estimate travi URSE: Provide a bae Apply science An ability to	we hydraulic conductivity for various cases of twater flow equations to confined and unconf p test data to determine aquifer properties. el times for groundwater contaminants in a sa B.TECH-CE kground in the theory of hydrological process and engineering fundamentals to solve curro manipulate hydrological data and undertake v	f heterogeneous subsurface formations. fined aquifers. CE/B.Tech IV VEAR: Hydrology COURSE OU sees and their measurement. ent problems and to anticipate, mitigate and prevent fu widely-used data analysis.	IV TCOMES (CO) CO STATEMENT ture problems in the area of water	SESSION: SEMESTER: SUBJECT CODE:	VII BCET 704 A
BCET 703 C.2 BCET 703 C.3 BCET 703 C.3 BCET 703 C.5 COI SUI CO# BCET 704 A.1 BCET 704 A.3 BCET 704 A.4	Derive effecti Apply ground Analyze pum Estimate trave URSE: BJECT: Provide a bac Apply science An ability to A systematic	we hydraulic conductivity for various cases of water flow equations to confined and unconf p test data to determine aquifer properties. el times for groundwater contaminants in a sa B.TECH-CE kground in the theory of hydrological process e and engineering fundamentals to solve curre manipulate hydrological data and undertake vunderstanding of the nature of hydrological sa	f heterogeneous subsurface formations. fined aquifers. CE/B.Tech IV YEAR: Hydrology COURSE OU sees and their measurement. rent problems and to anticipate, mitigate and prevent fu widely-used data analysis. stores and fluxes and a critical awareness of the methoc	IV ICOMES (CO) CO STATEMENT ture problems in the area of water	SENSION: SEMESTER: SUBJECT CODE: resources management. precast their variability; and the appropriate core	VII BCET 704 A ntexts for their application.
BCET 703 C.2 BCET 703 C.3 BCET 703 C.4 BCET 703 C.5 CO' SUB CO# BCET 704 A.1 BCET 704 A.2 BCET 704 A.3	Derive effecti Apply ground Analyze pum Estimate trave URSE: BJECT: Provide a bac Apply science An ability to A systematic	we hydraulic conductivity for various cases of water flow equations to confined and unconf p test data to determine aquifer properties. el times for groundwater contaminants in a sa B.TECH-CE kground in the theory of hydrological process e and engineering fundamentals to solve curre manipulate hydrological data and undertake vunderstanding of the nature of hydrological sa	f heterogeneous subsurface formations. fined aquifers. CE/B.Tech IV VEAR: Hydrology COURSE OU sees and their measurement. ent problems and to anticipate, mitigate and prevent fu widely-used data analysis.	IV ICOMES (CO) CO STATEMENT ture problems in the area of water	SENSION: SEMESTER: SUBJECT CODE: resources management. precast their variability; and the appropriate core	VII BCET 704 A ntexts for their application.
BCET 703 C.2 BCET 703 C.3 BCET 703 C.3 BCET 703 C.5 COI SUB CO# BCET 704 A.1 BCET 704 A.2 BCET 704 A.4 BCET 704 A.4	Derive effecti Apply ground Analyze pum Estimate trave URSE: BJECT: Provide a bac Apply science An ability to A systematic	we hydraulic conductivity for various cases of water flow equations to confined and unconf p test data to determine aquifer properties. el times for groundwater contaminants in a sa B.TECH-CE kground in the theory of hydrological process e and engineering fundamentals to solve curre manipulate hydrological data and undertake vunderstanding of the nature of hydrological sa	f heterogeneous subsurface formations. fined aquifers. CE/B.Tech IV YEAR: Hydrology COURSE OU sses and their measurement. ent problems and to anticipate, mitigate and prevent fu widely-used data analysis. stores and fluxes and a critical awareness of the method ater, can determine the main aquifer properties – perme	IV ICOMES (CO) CO STATEMENT ture problems in the area of water	SENSION: SEMESTER: SUBJECT CODE: resources management. precast their variability; and the appropriate core identify geological formations capable of stori	VII BCET 704 A ntexts for their application. ing and transporting groundwater.
BCET 703 C.2 BCET 703 C.3 BCET 703 C.3 BCET 703 C.5 COI SUI CO# BCET 704 A.1 BCET 704 A.2 BCET 704 A.3 BCET 704 A.4 CCET 704 A.5	Derive effecti Apply ground Analyze pum Estimate trav DURSE: BJECT: Provide a bac Apply science An ability to A systematic Can define th	we hydraulic conductivity for various cases of water flow equations to confined and unconf p test data to determine aquifer properties. el times for groundwater contaminants in a sa B.TECH-CE kground in the theory of hydrological process e and engineering fundamentals to solve curromanipulate hydrological data and undertake vunderstanding of the nature of hydrological se key components of a functioning groundwater. B.TECH-CE	f heterogeneous subsurface formations. fined aquifers. CE/B.Tech IV YEAR: Hydrology COURSE OU sees and their measurement. tent problems and to anticipate, mitigate and prevent fu widely-used data analysis. stores and fluxes and a critical awareness of the methoc ater, can determine the main aquifer properties – perme CE/B.Tech IV YEAR: Construction Planning & Management	IV IV ICOMES (CO) CO STATEMENT ture problems in the area of water ds used to measure, analyze and feability, transmissivity and storage	SESSION: SEMENTER: SUBJECT CODE: resources management. orecast their variability; and the appropriate core identify geological formations capable of storic SESSION:	VII BCET 784 A ntexts for their application. ing and transporting groundwater. 2024-25
BCET 703 C.2 BCET 703 C.3 BCET 703 C.3 BCET 703 C.5 BCET 703 C.5 CO' SUE CO# BCET 704 A.1 BCET 704 A.2 BCET 704 A.3 BCET 704 A.5 BCET 704 A.5 BCET 704 A.5 BCET 704 A.5	Derive effecti Apply ground Analyze pum Estimate trave BURSE: BPECT: Provide a bac Apply science An ability to A systematic Can define th	we hydraulic conductivity for various cases of water flow equations to confined and unconf p test data to determine aquifer properties. el times for groundwater contaminants in a sa B.TECH-CE kground in the theory of hydrological process e and engineering fundamentals to solve curromanipulate hydrological data and undertake vunderstanding of the nature of hydrological se key components of a functioning groundwater. B.TECH-CE	f heterogeneous subsurface formations. fined aquifers. CE/B.Tech IV YEAR: Hydrology COURSE OU sees and their measurement. tent problems and to anticipate, mitigate and prevent fu widely-used data analysis. stores and fluxes and a critical awareness of the methoc ater, can determine the main aquifer properties – perme CE/B.Tech IV YEAR: Construction Planning & Management	IV TCOMES (CO) CO STATEMENT ture problems in the area of water ability, transmissivity and storage IV TCOMES (CO)	SESSION: SEMESTER: SUBJECT CODE: resources management. orecast their variability; and the appropriate core. Identify geological formations capable of storic Sessions. SEMESTER:	VII BCET 704 A ntexts for their application. ing and transporting groundwater. 2024-25 VIII
BCET 703 C.2 BCET 703 C.3 BCET 703 C.3 BCET 703 C.5 COI SUB CO# BCET 704 A.1 BCET 704 A.3 BCET 704 A.4 BCET 704 A.5 COI SUB CO	Derive effecti Apply ground Analyze pum Estimate trav Analyze pum Estimate trav BRECT: Provide a bac Apply science An ability to A systematic Can define th	we hydraulic conductivity for various cases of water flow equations to confined and unconf p test data to determine aquifer properties. el times for groundwater contaminants in a sa B.TECH-CE kground in the theory of hydrological process e and engineering fundamentals to solve curromanipulate hydrological data and undertake vunderstanding of the nature of hydrological se key components of a functioning groundwate. B.TECH-CE	f heterogeneous subsurface formations. fined aquifers. CE/B.Tech IV YEAR: Hydrology COURSE OU sees and their measurement. tent problems and to anticipate, mitigate and prevent fu widely-used data analysis. stores and fluxes and a critical awareness of the methoc ater, can determine the main aquifer properties – perme CE/B.Tech IV YEAR: Construction Planning & Management	IV IV ICOMES (CO) CO STATEMENT ture problems in the area of water ds used to measure, analyze and feability, transmissivity and storage	SESSION: SEMESTER: SUBJECT CODE: resources management. orecast their variability; and the appropriate core. Identify geological formations capable of storic Sessions. SEMESTER:	VII BCET 704 A ntexts for their application. ing and transporting groundwater. 2024-25 VIII
BCET 703 C.2 BCET 703 C.3 BCET 703 C.3 BCET 703 C.5 BCET 703 C.5 CO' SUE CO# BCET 704 A.1 BCET 704 A.2 BCET 704 A.3 BCET 704 A.5 BCET 704 A.5 BCET 704 A.5 BCET 704 A.5	Derive effecti Apply ground Analyze pum Analyze pum Analyze pum Erse: Provide a base Apply science An ability to A systematic Can define the UURSE: BJECT: An understan	we hydraulic conductivity for various cases of water flow equations to confined and unconf p test data to determine aquifer properties. el times for groundwater contaminants in a sa B.TECH-CE kground in the theory of hydrological process e and engineering fundamentals to solve curvamanipulate hydrological data and undertake vunderstanding of the nature of hydrological se key components of a functioning groundwater. B.TECH-CE	of heterogeneous subsurface formations. fined aquifers. CE/B.Tech IV VEAR: Hydrology COURSE OU sees and their measurement. ent problems and to anticipate, mitigate and prevent furwidely-used data analysis. stores and fluxes and a critical awareness of the method atter, can determine the main aquifer properties — perme CE/B.Tech IV VEAR: Construction Planning & Management COURSE OU COURSE OU	IV TCOMES (CO) CO STATEMENT IV TCOMES (CO) CO STATEMENT TUTE TOMES (CO) CO STATEMENT TOMES (CO) CO STATEMENT	SESSION: SEMESTER: SUBJECT CODE: resources management. orecast their variability; and the appropriate core. Identify geological formations capable of storic Sessions. SEMESTER:	VII BCET 704 A ntexts for their application. ing and transporting groundwater. 2024-25 VIII
BCET 703 C.2 BCET 703 C.3 BCET 703 C.3 BCET 703 C.5 CO SUI CO # BCET 704 A.1 BCET 704 A.3 BCET 704 A.4 BCET 704 A.5 CO SUI CO # BCET 704 B.CET 801.1	Derive effect Apply ground Analyze pum Estimate trav URSE: Provide a bac Apply about An ability to A systematic Can define th URSE: BIECT: An understan A good idea	we hydraulic conductivity for various cases of water flow equations to confined and unconf p test data to determine aquifer properties. el times for groundwater contaminants in a sa B.TECH-CE kground in the theory of hydrological process e and engineering fundamentals to solve curvamanipulate hydrological data and undertake vunderstanding of the nature of hydrological se key components of a functioning groundwater. B.TECH-CE	ff heterogeneous subsurface formations. fined aquifers. CE/B.Tech IV YEAR: Hydrology COURSE OU sees and their measurement. ent problems and on anticipate, mitigate and prevent fu widely-used data analysis. stores and fluxes and a critical awareness of the metho atter, can determine the main aquifer properties – perme CE/B.Tech IV YEAR: Construction Planning & Management COURSE OU wholders, project objectives, Processes, resources require	IV TCOMES (CO) CO STATEMENT IV TCOMES (CO) CO STATEMENT TUTE TOMES (CO) CO STATEMENT TOMES (CO) CO STATEMENT	SESSION: SEMESTER: SUBJECT CODE: resources management. orecast their variability; and the appropriate core. Identify geological formations capable of storic Sessions. SEMESTER:	VII BCET 704 A ntexts for their application. ing and transporting groundwater. 2024-25 VIII
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COU	RSE:	B.TECH- CE	B.TECH- CE YEAR: IV				VIII	
SUBJ	ECT:	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 scl	emes 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	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.							