BRANCH	I:		EEE /B.Tech II							
COURSE	:	B.TECH- EEE	YEAR:	II		SEMESTER:	III			
SUBJECT	SUBJECT: Networks analysis and synthesis SU					ECT CODE:	BEET-305			
		COURSE OUTCOMES (CO)								
CO#			CO ST	CATEMENT						
BEET 305.1	Apply	pply network topology concepts to the formulation and resolution of electrical network issues.								
DE/E/ 303.4		nine the attributes and traits ractical implementation.	of network fun	ctions and confirm th	e math	ematical limita	tions for			
		Synthesize passive two-port networks filters using standard Foster and Cauer forms.								
BEET 305.4	Apply	the concept of Laplace and	Fourier tran	sforms in electrical i	1etwor	k problems.				
BEET 305.5	To ana	alyze the behaviour of the c	ircuit in diffei	rent domains.						

BRANCH	:			SESSION:	2022-23						
COURSE	:	B.TECH- EEE	SEMESTER:	III							
SUBJECT	Γ:	Programming Practices SUBJECT					BEEP 306				
	COURSE OUTCOMES (CO)										
CO#			CO STATE	MENT							
BEEP 306.1		strate proficiency in utilizing MATI es and projects.	LAB for solving mathem	atical and enginee	ring prob	olems through pro	ogramming				
BEEP 306.2	Apply a explore	Apply a comprehensive understanding of MATLAB's syntax, data types, functions, and built-in libraries to independently explore and manipulate data and algorithms.									
	Develop problem-solving skills by applying MATLAB such as signal processing and mathematical modeling.										
BEEP 306.4		Utilize MATLAB as a tool for data analysis and simulation in various disciplines such as engineering, science and									
		r skills acquired in MATLAB to lea learning and versatility in software		rogramming langu	ages an	d environments,	fostering				

BRANCH	1.		EEE /B.Tech III		SESSION:	2022-23					
COURSE		B.TECH- EEE	YEAR:	III	SEMESTER:	V					
SUBJEC			ed Instrumentation		SUBJECT CODE:	BEET 503(B)					
OODOLO	1.		URSE OUTCO		OODOLOT OODL.	BEET 303(B)					
CO#		33		ATEMENT							
<u> </u>				/ LIVILIA							
BEET 503.1	Demons	trate understanding of basic sense	or characteristics, inclu	iding principles of operation	on sensitivity accuracy and	response time					
DEL1 303.1	Demons	trate understanding or basic sensi	or characteristics, more	ung principles of operation	on, sensitivity, accuracy, and	response time.					
BEET 503.2	Classify	various types of sensors and actu	lators based on their n	rinciples functions and ar	onlications across different in	ndustries					
DEE! COOL	i		•		•						
BEET 503.3	control.	Apply mathematical equations relevant to temperature sensors to analyze and solve problems related to temperature measurement and control.									
	Apply ma	Apply mathematical equations relevant to pressure sensors to analyze and solve problems related to pressure measurement and									
BEET 503.4	control.										
	Apply ma	Apply mathematical equations relevant to level sensors and display devices to analyze and solve problems related to level									
BEET 503.5	measure	ment and visualization.									
5511181					O CONTANT						
BRANCH			EEE /B.Tech III		SESSION:	2022-23					
COURSE		B.TECH- EEE	YEAR:	III	SEMESTER:	V					
SUBJEC	l:		strial Interaction	MEC (CO)	SUBJECT CODE:	BENP-506					
CO #		LU	URSE OUTCO								
CO#			<u> </u>	ATEMENT							
BENP-506.1	Demons	strate competency in the field o	of electrical engineeri	na through problem ide	ntification formulation and	1 solution					
DEINF-300.1	Develor	the ability to work as an indivi	dual and in group wi	th the capacity to be a le	eader or manager as well	as an effective					
BENP-506.2	team me	•	3 wp								
	Apply th	eoretical knowledge gained in	the classroom to rea	l-world industrial scena	rios, fostering a deeper ui	nderstanding of					
BENP-506.3		l applications.									
		potential career paths and opp	ortunities within the	ndustry through networ	king and mentorship durir	ig interactions					
BENP-506.4	with pro	fessionals. e a report based on the experi	ongo and projects or	priod out with the chility	to apply knowledge of M	athomotics					
BENP-506.5		e a report based on the experi and Engineering Fundamenta		imed out with the ability	to apply knowledge of Mi	autemaucs,					
BRANCE	4	and Engineering i diluamenta	EEE /B.Tech IV		SESSION:	2022-23					
COURSE		B.TECH- EEE	YEAR:	IV	SEMESTER:	VII					
SUBJEC			gear and protection		SUBJECT CODE:	BEET- 701					
OODOLO		SWILCH	gour and protectiv	/II	GODOLO I GODE.	DEE1-101					
			URSE OUTCO	MES (CO)							

BEET-701.1	Explain the various faults and protective schemes in the Power systems
BEET-701.2	Summarize the operation of various protection relays in the power systems
BEET-701.3	Infer the need and procedure of apparatus protection in the power protection system.
ll .	Identify and classify circuit breakers based on design, operating mechanisms, and testing procedures using both direct and indirect methods.
	Identify and analyze types of faults on transformers and understand the principles and methods of protection for each type of fault.

BRANCH	l :		EEE /B.Tech IV			SESSION:	2022-23			
COURSE	<u>:</u>	B.TECH- EEE	YEAR:	IV		SEMESTER:	VII			
SUBJEC	T:	Switchgear	r and protection lab		SUB	JECT CODE:	BEEP- 701			
		COU	IRSE OUTCOME							
CO#			CO STAT	EMENT						
BEEP-701.1		protection requirements for diffe								
BEEP-701.2	Demonstrate a comprehensive understanding of protection principles in electrical systems, including overcurrent, differential, and earth fault protection.									
BEEP-701.3	Develop the ability to identify and troubleshoot common faults in switchgear systems, including short circuits, insulation failures, and mechanical malfunctions.									
BEEP-701.4	to ensur	Testing and commissioning various types of switchgear equipment, including circuit breakers, relays, and busbar systems, to ensure proper functioning and reliability.								
BEEP-701.5	II .	and the importance of compliand on, operation, and maintenance.		y standards and regu	ulations	governing switch	gear			
BRANCH	~*		EEE /B.Tech IV			SESSION:	2022-23			
COURSE		B.TECH- EEE	YEAR:	IV		SEMESTER:	VII			
SUBJECT	Γ:		ctrical Energy & Tra		SUBJ	ECT CODE:	BEET 702			
		cot	IRSE OUTCOME	S (CO)						
CO #			CO STAT	EMENT						
BEET 702.1	Illustrat	te the working principle of elec	etric power utilization	n and their applicati	ions in	real life.				
BEET 702.2	Apply tl	ne laws of electrical heating in va	rious industrial and do	mestic processes						
BEET 702.3	Examin	ne various applications in indoo	or and outdoor applic	ation areas where u	ise of li	ght sources are	essential.			
BEET 702.4	Analyz	e the performance characteristi	ics of electrical mach	ines and traction sy	stems.					
BEET 702.5	Assess manage	the traction system for braking ement.	g, acceleration and of	her related paramet	ers, inc	luding demand s	side			

BRANCE	[:	EEE /B.Tech IV				SESSION:	2022-23	
COURSE	:	B.TECH- EEE YEAR: IV				SEMESTER:	VII	
SUBJEC'	T: Utilization of Electrical Energy & Traction Lab SUI			SUBJ	ECT CODE:	BEEP 702		
COURSE OUTCOMES (CO)								
CO #		CO STATEMENT						
BEEP 702.1	Conduct perf	ormance tests on electri	ical machines sucl	n as motors, generators	, transfc	rmers, and alter	nators.	
BEEP 702.2	electrical syst	tems and traction setups	S.					
BEEP 702.3	Analyze ener	Analyze energy efficiency measures and power quality issues in electrical systems applications						
BEEP 702.4	Prepare a rep	ort of speifications of v	arious electric we	lding machines.				
BEEP 702.5	Identify the d	lifferent lightening acce	ssories required for	or various types of elec	tric lam	ps.		

BRANCE	l:		EEE /B.Tech II			SESSION:	2022-23		
COURSE		B.TECH	YEAR:	II		SEMESTER:	III		
SUBJEC [*]	T:	Electronic measurement & instrumantation SUBJECT CODE:				BEET-301			
	COURSE OUTCOMES (CO)								
CO#		CO STATEMENT							
BEET301.1	Analyze	Analyze the performance characteristics of each instrument.							
BEET301.2	Demons	strate basic meters such as voltm	eters and amme	ters and Distinguish vario	us types	s of bridge based	on quality factor		
BEET301.3	Apply th	e complete knowledge of various	electronics instr	uments/transducers to m	easure t	he physical quant	tities in the field		
BEET301.4	Comput	Compute the basic features of oscilloscope and distinguish between various types of oscilloscopes							
BEET301.5	Classify	the many kinds of signal analyze	rs						

BRANCH			EEE /B.Tech II			SESSION:	2022-23
COURSE		B.TECH	YEAR:	<u> </u>		SEMESTER:	III
SUBJEC	Τ:		rement & instrumantati		SUB	JECT CODE:	BEEP-301
CO #		CC	OURSE OUTCOMES CO STATE				
BEEP301.1	Identify	different measuring instrumen	ts for the measurement of	electrical and non	-electrica	l parameters.	
BEEP301.2	Examin	e AC bridges for the measurer	ment of inductance, capacit	ance and frequen	ісу.		
BEEP301.3	Demon	onstate the complete knowledge	ge of various electronics ins	struments/transdu	icers to m	neasure the phys	ical quantities in
BEEP301.4	i	te the basic features of oscillos					<u> </u>
	î		<u> </u>	een vanous types	OI OSCIIIC	oscopes	
BEEP301.5	Analyze	the many kinds of signal anal	yzers				
BRANCH	1:		EEE /B.Tech			SESSION:	2022-23
COURSE		B.TECH- EEE	YEAR:	II		SEMESTER:	III
SUBJEC			ctronics Devices		SUB	JECT CODE:	BECT-304
		CC	OURSE OUTCOMES	(CO)		'	
CO#			CO STATE	MENT			
BECT 304.1		te various characterstics of					
BECT 304.2		he laws of semiconductor p		ems			
BECT 304.3		ne the various application of					
BECT 304.4 BECT 304.5		e various transistor configur s various parameter and cha		transistor			
DECT 304.3	11/100692	s various parameter and tha	naoteratios of FIEID EIIECI	. น สาเอเอเบเ			
BRANCH			EEE /B.Tech			SESSION:	2022-23
COURSE		B.TECH- EEE	YEAR:	II		SEMESTER:	III
SUBJEC	T:		onics Devices Lab		SUB	JECT CODE:	BECP-304
00 //	1	G (OURSE OUTCOMES				
CO #	 	- Al I-l i	CO STATE				
BECP 304.1 BECP 304.2		ne the various lab equipmen					
			se curve of various diada				
			cs curve of various diode				
BECP 304.3	Analyz	e the input and output chara	cteristics and H paramet	er oF BJT			
	Analyz Identify		ecteristics and H paramet rve and measure bandw	er oF BJT			
BECP 304.3 BECP 304.4 BECP 304.5	Analyze Identify Implem	e the input and output chara Magnitude vs frequency cu	acteristics and H paramet urve and measure bandw uit in breadboard	er oF BJT			
BECP 304.3 BECP 304.4 BECP 304.5	Analyze Identify Implem	e the input and output chara / Magnitude vs frequency cu nent various electronics circu	acteristics and H paramet urve and measure bandwuit in breadboard EEE /B.Tech	er oF BJT idth in FET		SESSION:	2022-23
BECP 304.3 BECP 304.4 BECP 304.5 BRANCE	Analyze Identify Implem	e the input and output chara Magnitude vs frequency cu nent various electronics circu B.TECH- EEE	acteristics and H paramet arve and measure bandw uit in breadboard EEE /B.Tech YEAR:	er oF BJT		SEMESTER:	V
BECP 304.3 BECP 304.4 BECP 304.5	Analyze Identify Implem	e the input and output chara Magnitude vs frequency cu nent various electronics circu B.TECH- EEE Electron	acteristics and H paramet irve and measure bandw uit in breadboard EEE /B.Tech YEAR: nagnetic Field Theory	er oF BJT idth in FET	SUB		
BECP 304.4 BECP 304.5 BRANCH COURSE SUBJEC	Analyze Identify Implem	e the input and output chara Magnitude vs frequency cu nent various electronics circu B.TECH- EEE Electron	acteristics and H parameterize and measure bandwrit in breadboard EEE /B.Tech YEAR: nagnetic Field Theory DURSE OUTCOMES	er oF BJT idth in FET III (CO)	SUB	SEMESTER:	V
BECP 304.3 BECP 304.4 BECP 304.5 BRANCH COURSE SUBJEC	Analyze Identify Implem	e the input and output chara Magnitude vs frequency cu nent various electronics circu B.TECH- EEE Electron	ecteristics and H parameterize and measure bandwrit in breadboard EEE /B.Tech YEAR: nagnetic Field Theory DURSE OUTCOMES CO STATE	er oF BJT idth in FET III (CO)		SEMESTER: JECT CODE:	V BEET-505
BECP 304.4 BECP 304.5 BRANCH COURSE SUBJEC	Analyzde Identify Implem I: Identify Implem I: Identify Implem I: Identify Implem I: Identify	e the input and output chara / Magnitude vs frequency cu nent various electronics circu B.TECH- EEE Electron CC stand the depth of static and	icteristics and H parametric and measure bandwrit in breadboard EEE /B.Tech YEAR: nagnetic Field Theory DURSE OUTCOMES CO STATE time varying electromag	er oF BJT idth in FET III (CO) IMENT netic field as go		SEMESTER: JECT CODE:	V BEET-505
BECP 304.3 BECP 304.4 BECP 304.5 BRANCH COURSE SUBJEC CO # BEET 505.1	Analyz Identify Implem I: : : : : : : : ! ! ! ! ! ! ! ! ! ! !	e the input and output chara Magnitude vs frequency cu nent various electronics circu B.TECH- EEE Electron	eteristics and H parameterize and measure bandwrite in breadboard EEE /B.Tech YEAR: nagnetic Field Theory OURSE OUTCOMES CO STATE time varying electromages and divergence theorer	er oF BJT idth in FET III (CO) MENT netic field as go	verned b	JECT CODE:	V BEET-505
BECP 304.3 BECP 304.4 BECP 304.5 BRANCH COURSE SUBJEC CO # BEET 505.1 BEET 505.2 BEET 505.3 BEET 505.4	Analyz: Identify Implem I: IT: Unders Illustrat Examir Analyz:	e the input and output chara Magnitude vs frequency cu nent various electronics circu B.TECH- EEE Electron Co estand the depth of static and te the applications of strokes the the characteristics of guide e uniform plane wave propa	EEE /B.Tech EEE /B.Tech YEAR: nagnetic Field Theory OURSE OUTCOMES CO STATE time varying electromag s and divergence theorer ded waves betwwen para gation in different mediur	er oF BJT idth in FET III (CO) MENT netic field as go'n Illel plane and rem	verned b	SEMESTER: JECT CODE: by Maxwell's equal ar waveguide	V BEET-505
BECP 304.3 BECP 304.4 BECP 304.5 BRANCF COURSE SUBJEC CO # BEET 505.1 BEET 505.2 BEET 505.3 BEET 505.4 BEET 505.5	Analyz: Identify Implem I: IT: Identify Implem II: Identify Implem II: Identify Implem II: Identify Inders IIIustrat IExamir IAnalyz IApply s	e the input and output chara Magnitude vs frequency cu nent various electronics circu B.TECH- EEE Electron Co estand the depth of static and te the applications of strokes ne the characteristics of guiden	EEE /B.Tech YEAR: nagnetic Field Theory DURSE OUTCOMES CO STATE time varying electromag s and divergence theorer ded waves betwwen para gation in different mediur	er oF BJT idth in FET III (CO) MENT netic field as go'n Illel plane and rem	verned b	SEMESTER: JECT CODE: by Maxwell's equar waveguide	V BEET-505 uations.
BECP 304.3 BECP 304.4 BECP 304.5 BRANCH COURSE SUBJEC CO # BEET 505.1 BEET 505.2 BEET 505.3 BEET 505.4 BEET 505.5 BRANCH	Analyze Identify Implem I: Ident	e the input and output chara Magnitude vs frequency cu nent various electronics circu B.TECH- EEE Electron Co estand the depth of static and te the applications of strokes the the characteristics of guide e uniform plane wave propa smith chart for solution of tra	EEE /B.Tech YEAR: nagnetic Field Theory OURSE OUTCOMES CO STATE time varying electromag s and divergence theorer ded waves betwwen para gation in different mediur ansmission line problems EEE /B.Tech III	er oF BJT idth in FET III (CO) MENT netic field as goon Ilel plane and remain and impedance	verned b	SEMESTER: JECT CODE: by Maxwell's equal waveguide g SESSION:	V BEET-505 uations.
BECP 304.3 BECP 304.4 BECP 304.5 BRANCF COURSE SUBJEC BEET 505.1 BEET 505.2 BEET 505.4 BEET 505.5 BRANCF COURSE	Analyz: Identify Implem I: IT: Identify Implem II: Identify Implem II: Identify Implem II: Identify Implem II: Identify Inders Identify Id	e the input and output chara Magnitude vs frequency cu nent various electronics circu B.TECH- EEE Electron Co estand the depth of static and te the applications of strokes ne the characteristics of guice e uniform plane wave propa smith chart for solution of tra B.TECH- EEE	EEE /B.Tech YEAR: nagnetic Field Theory OURSE OUTCOMES CO STATE time varying electromag s and divergence theorer ded waves betwwen para gation in different mediur ansmission line problems EEE /B.Tech III YEAR:	er oF BJT idth in FET III (CO) MENT netic field as go'n Illel plane and rem	verned b	SEMESTER: JECT CODE: by Maxwell's equal ar waveguide g SESSION: SEMESTER:	V BEET-505 uations. 2022-23 V
BECP 304.3 BECP 304.4 BECP 304.5 BRANCH COURSE SUBJEC CO # BEET 505.1 BEET 505.2 BEET 505.3 BEET 505.4 BEET 505.5 BRANCH	Analyz: Identify Implem I: IT: Identify Implem II: Identify Implem II: Identify Implem II: Identify Implem II: Identify Inders Identify Id	e the input and output chara Magnitude vs frequency cu nent various electronics circu B.TECH- EEE Electron Co estand the depth of static and te the applications of strokes ne the characteristics of guice e uniform plane wave propa smith chart for solution of tra B.TECH- EEE Indu	EEE /B.Tech YEAR: nagnetic Field Theory OURSE OUTCOMES CO STATE time varying electromag s and divergence theorer ded waves betwwen para gation in different mediur ansmission line problems EEE /B.Tech III YEAR: strial Electronics	er oF BJT idth in FET III (CO) MENT netic field as go'n Ilel plane and rem and impedance	verned b	SEMESTER: JECT CODE: by Maxwell's equal waveguide g SESSION:	V BEET-505 uations.
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BECP 304.3 BECP 304.4 BECP 304.5 BRANCF COURSE SUBJEC BEET 505.1 BEET 505.2 BEET 505.4 BEET 505.5 BRANCF COURSE	Analyz: Identify Implem I: I: IT: Unders Illustrat Examir Analyz: Apply s III	e the input and output chara Magnitude vs frequency cu tent various electronics circu B.TECH- EEE Electron Stand the depth of static and te the applications of strokes the characteristics of guide uniform plane wave propasimith chart for solution of tra B.TECH- EEE Indu CC	EEE /B.Tech YEAR: nagnetic Field Theory DURSE OUTCOMES and divergence theorer ded waves between para gation in different mediur ansmission line problems EEE /B.Tech III YEAR: Strial Electronics DURSE OUTCOMES CO STATE	er oF BJT idth in FET III (CO) EMENT netic field as goon Illel plane and re n and impedance III (CO)	verned b ctangula matchir	SEMESTER: JECT CODE: ar waveguide g SESSION: SEMESTER: JECT CODE:	V BEET-505 Lations. 2022-23 V BOET 504 C
BECP 304.3 BECP 304.4 BECP 304.5 BRANCF COURSE SUBJEC CO # BEET 505.1 BEET 505.2 BEET 505.3 BEET 505.4 BEET 505.5 BRANCF COURSE SUBJEC CO #	Analyzı Identify Implem I: I: IT: Indentify Implem II: IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	e the input and output chara Magnitude vs frequency cu tent various electronics circu B.TECH- EEE Electron Stand the depth of static and te the applications of strokes the the characteristics of guide uniform plane wave propa smith chart for solution of tra B.TECH- EEE Indu CC ate the performance characteristics of controls and controls are the characteristics.	EEE /B.Tech YEAR: nagnetic Field Theory DURSE OUTCOMES and divergence theorer ded waves between para gation in different mediur ansmission line problems EEE /B.Tech III YEAR: Strial Electronics DURSE OUTCOMES CO STATE	er oF BJT idth in FET III (CO) EMENT netic field as goon Illel plane and re n and impedance III (CO)	verned b ctangula matchir	SEMESTER: JECT CODE: ar waveguide g SESSION: SEMESTER: JECT CODE:	V BEET-505 Lations. 2022-23 V BOET 504 C
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BECP 304.3 BECP 304.4 BECP 304.5 BRANCF COURSE SUBJEC CO # BEET 505.1 BEET 505.2 BEET 505.3 BEET 505.4 BEET 505.5 BRANCF COURSE SUBJEC CO # BOET 504 C.1	Analyz: Identify Implem I: I: Implem I: Implem I: Implem I: Implem I: Implem Iimplem I	e the input and output chara Magnitude vs frequency curent various electronics circu B.TECH- EEE Electron CC stand the depth of static and te the applications of strokene the characteristics of guide uniform plane wave propasmith chart for solution of training and the performance characteristics of linear and attents.	EEE /B.Tech YEAR: Inagnetic Field Theory DURSE OUTCOMES and divergence theorer ded waves betwwen para gation in different mediur ansmission line problems EEE /B.Tech III YEAR: STATE STATE STATE STATE STATE STATE CO STATE CO STATE ACCEPTATE ACCEPTA	er of BJT idth in FET III (CO) MENT netic field as go n lilel plane and rem and impedance III (CO) MENT and as a not	ctangula matchir SUB.	SEMESTER: JECT CODE: ar waveguide SESSION: SEMESTER: JECT CODE:	V BEET-505 Lations. 2022-23 V BOET 504 C
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BEET501.1	Analyze	e the behaviour o	of DC & AC n	notor models	for differe	ent applications			
	Evaluat	te the characteris	stics of diffe	rent types of	DC & AC ı	motors for desigr	ning suita	able controllers.	
BEET501.2									
BEET501.3						the Synchronou			
	II .	•			r of induc	tion machines to	propose	the suitability	
BEET501.4	-	es for different in							
DEETEO4 E	II .	•		ient behaviou	r of AC &I	DC machines to p	ropose t	he suitability of	drives for
BEET501.5	<u> </u> αιπετει	nt industrial appl	ications						
BRANCE	1:			EEE /B.T	ech			SESSION:	2022-23
COURSE	:	B.TE	СН	YEAR	: [DEPARTMEN	T	SEMESTER:	5
SUBJEC	T:			ical Machine			SUB	JECT CODE:	BEEP-501
			CO	URSE OU					
CO#				С	O STAT	EMENT			
BEEP501.1	Assess the performance of three phase and single phase induction motors .								
BEEP501.2	Examin	ne the speed of t	hree phase i	nduction mot	or and syı	nchronous motor	,		
	1								
BEEP501.3	Pre det	ermine the regul	lation of thre	e phase alter	nator by v	arious methods.			
BEEP501.4		a/xq ratio of aitei es for different ii		•	Tormance	of three phase sy	ncnronc	ous motor	
BEEF 301.4	Evaluat	te the steady sta	te and transi	ient behaviou	r of AC ma	achines to propo	se the su	itability of drive	s for different
BEEP501.5	II .	ial applications						, , , , , , , , , , , , , , , , , , , ,	
BRANCH				EEE /B.Te				SESSION:	2022-23
COURSE		B.TECH		YEAR	:	IV	I CUID	SEMESTER:	VII
			lon Conven	YEAR tional Energ	: y Resour	ces	SUB		VII
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COURSE SUBJECT	T:	N	on Conven	YEAR tional Energ URSE OU	: y Resour	ces S (CO)	SUB	SEMESTER:	VII
COURSE SUBJECT CO # BEET 703(B).1	T: Analyze		formance ind	YEAR tional Energ URSE OU Clices.	y Resour COME	ces S (CO) EMENT	SUB	SEMESTER:	VII
COURSE SUBJECT CO # BEET 703(B).1 BEET 703(B).2	T: Analyze Explore	the fuel cell's per	formance ind	YEAR tional Energe URSE OU Clices. in producing a	y Resour O STAT	ces S (CO) EMENT	SUB	SEMESTER:	VII
COURSE SUBJECT CO # BEET 703(B).1 BEET 703(B).2 BEET 703(B).3 BEET 703(B).4	Analyze Explore Calcula Estimat	the fuel cell's per the many proces te the MHD syste e the OTEC syste	rformance ind ses involved m's economic em's usefulne	tional Energe URSE OU Clices. in producing a cs and power cs so for generati	y Resour TCOME O STAT and storing output. Ing power i	ces S (CO) EMENT hydrogen. n various scenario	os.	SEMESTER:	VII
COURSE SUBJECT CO # BEET 703(B).1 BEET 703(B).2 BEET 703(B).3 BEET 703(B).4 BEET 703(B).5	Analyze Explore Calcula Estimat	the fuel cell's per the many proces te the MHD syste e the OTEC syste	rformance ind ses involved m's economic em's usefulne	VEAR tional Energy URSE OU Clices. in producing a as and power a ss for generati ed using differe	y Resour ICOME O STAT nd storing output. ng power i	ces S (CO) EMENT	os.	SEMESTER: JECT CODE:	VII BEET-703 (B)
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BRANCH	1 :			SESSION:	2022-23			
COURSE	:	B.TECH- EEE	SEMESTER:	V				
SUBJEC	T:		System 2 Lab		SUB	JECT CODE:	BEEP 502	
COURSE OUTCOMES (CO)								
CO#		CO STATEMENT						
BEEP 502.1	Simulate	e the model of overhead power s	ystems in laborato	ory.				
BEEP 502.2	Calculat	te Z and Y matrices for any given	power networks					
BEEP 502.3	Perform	Perform various analysis on any given power system using appropriate tools and techniques						
BEEP 502.4	Compar	Compare different scenarios for economic dispatch of power						
BEEP 502.5	Deduce	the effectiveness of LFC on sing	le and double are	a criteria				

ACULTY NAME	: MRS.SUSHMA CHAUDHARY	
BRANCH:	EEE/B.Tech /7TH	SESSION: 2022-23
COURSE:	B.TECH YEAR: 3RD	SEMESTER: 7TH
SUBJECT:	PEN SOURCE SW LAB	UBJECT CODI BEEP-705
	COURSE OUTCOMES (C	SO)
CO#	FATEMENT	
BEEP705.1	Use circuit design software like for, data analysis and simulation.	

				ensors, a	ctuators, and	other hard	dware pa	arts for			
BEEP705.2	A prac	tical purpose.									
BEEP705.3	Foster t	eamwork, coi	mmunication	n skills, ar	nd exposure to vant licenses	real-wor	ld engine	eering	challenges		
BEEP705.4	Navigat	e and ensure pment.	compliance	with rele	vant licenses a	and prom	oting eth	nical pr	actices in p	project	
BLLF 703.4	Contribu	ite to the doc	umentation	and disse	emination of op	en-sourc	e projec	ts to fa	cilitate		
BEE705.5	knowle	edge sharing	and collabor	ation.							
BRANCE	1:				EEE /B.Tech	1				SESSION:	2022-23
COURSE		B.T	ECH- EEE		YEAR:			II		SEMESTER:	IV
SUBJEC	Т:			Signa	I & System	OMES	(CO)		SUB	JECT CODE:	BECT-402
CO#				COOL	CO	STATE	MENT				
BECT 402.1					and discrete ti	me signa	ls and sy	ystems	S.		
BECT 402.2 BECT 402.3		state space a			n. continuous tim	o olamol					
BECT 402.3					form of continu		discrete	time s	ignals.		
BECT 402.5					bility and caus					ıs	
BBANGI		-			FFF /D TL					OF COLON	0000 00
BRANCE		R T	ECH- EEE	1	EEE /B.Tech YEAR:	1		III		SESSION: SEMESTER:	2022-23 VI
SUBJEC				gital Sig	nal Process	ing		···	SUB.	JECT CODE:	BECT-603
				COUF	RSE OUTC						
CO#						STATE					
BECT 603.1 BECT 603.2		the concep			systems alo	ng with fr	requenc	cy ana	lysis		
BECT 603.2					of discrete sign	ınals.					
BECT 603.4	Illustrat	e the effect	of finite rec	ister len	gth in FIR dig	ital filters	3.				
BECT 603.5	Analyze	e the frequei	ncy charac	teristics o	of IIR and FIF	R digital f	ilters fo	r giveı	n requirem	nents	
BRANCH	1.				EEE /B.Tech	<u> </u>				SESSION:	2022-23
COURSE		BT	ECH- EEE		YEAR:			III		SEMESTER:	2022-23 VI
SUBJEC				tal Signa	al Processin	g Lab	•		SUB	JECT CODE:	BECP-603
				COUF	RSE OUTC	OMES	(CO)				
CO#	I luz el e un	4 4	41			STATE	MENT				
BECP 603.1 BECP 603.2					n on discrete)FT and	1 FFT	of descret	e time signa l s	
BECP 603.3	Calcula	ite linear and	d Circular o	onvolution	on of discrete	segueno	ces	4111	or descret	e time signals	
BECP 603.4	Illustrat	e the effect	of finite reg	ister len	gth in FIR dig	ital filters	S.				
BECP 603.5		e the frequei	ncy charac				ilters fo	r giveı	n requirem		
BRANCH		ВТ	ECH- EEE	E	EE /B.Tech	IV		IV		SESSION: SEMESTER:	2022-23 VIII
SUBJEC		D, 1		dvance o	ontrol Syste	ems		ıv	SUB.	JECT CODE:	BEET- 801
					RSE OUTC		(CO)				
CO#					co:	STATE	MENT				
DEET 904 4	Analyzin	a nonlinear c	watan duna	miaa via	ializina phaca	portroito	and into	rnratir	a doooribir	a functions	
BEET-801.1			• •		ualizing phase ze system sta	•		•		ategies, and optir	nizina system
BEET-801.2	perform		ability trioor	y to arrary	20 0 0 0 0 0 1 1 0 1 0	J, 400	.gg o	pamai	001111011011	itogioo, and optii	menig byotom
	II .	_	time models	s, underst	anding differe	nce equa	tions, sta	ate-spa	ace represe	entation, and z-tra	ansform
BEET-801.3	techniqu		1 (1				(1.99	**		10 10 EP	
BEET-801.4	Evaluati	U	and steady-s	state resp	onses, assess	ing syste	m stabili	ity, and	analyzing	sensitivity of line	ar control
BEE1 001.4			oack control	lers, plac	ina poles for d	esired svs	stem bel	havior.	implement	ing state observ	ers, and
BEET-801.5					mproved syste			,			
						IV				SESSION:	□ つりつつ_つつ
BRANCH		РТ	ECH EEE	E	EE /B.Tech	V		N/			2022-23
COURSE	: :	B.T	ECH- EEE Adva		YEAR:			V	SUB.	SEMESTER:	VIII
	: :	В.Т		ance cor		s LAB		V	SUB		
COURSE	: :	B.T		ance cor	YEAR: ntrol System RSE OUTC	s LAB	(CO)	IV	SUB	SEMESTER:	VIII
COURSE SUBJEC	T:		Adva	ance cor	YEAR: htrol System RSE OUTC	S LAB	(CO) MENT		'	SEMESTER: JECT CODE:	VIII BEEP- 801
COURSE SUBJEC	T: Model a	nd analyze a	Adva	ance cor COUL	YEAR: ntrol System RSE OUTC CO: form of transf	s LAB OMES STATE er function	(CO) MENT n, in MA	TLAB,	considerin	SEMESTER: JECT CODE: g it's zeros, pole	VIII BEEP- 801 s and gain.
CO # BEEP-801.1	Model a	nd analyze a the time and	Adva	em in the	YEAR: htrol System RSE OUTC CO: form of transf s of SISO and	S LAB OMES STATE er functio	(CO) MENT n, in MA ear time	TLAB,	considerin	SEMESTER: JECT CODE:	VIII BEEP- 801 s and gain.
COURSE SUBJEC	Model a	nd analyze a the time and gins and stab	control syst frequency r ility of open	em in the	YEAR: Introl System RSE OUTC CO form of transf s of SISO and vell as closed I	s LAB OMES STATE er function MIMO line	(CO) MENT n, in MA ear time rol system	TLAB, invaria	considerin	SEMESTER: JECT CODE: g it's zeros, pole	VIII BEEP- 801 s and gain. s, for assessing
CO # BEEP-801.1	Model a Analyze the man	nd analyze a the time and gins and stab strate the Tim	control syst frequency r ility of open e Domain a	em in the esponses loop as w	YEAR: Introl System RSE OUTC CO form of transf s of SISO and vell as closed I	s LAB OMIES STATE er functio MIMO line oop contr	n, in MA ear time ol system	TLAB, invaria	considerin	SEMESTER: JECT CODE: g it's zeros, poles via various plot	VIII BEEP- 801 s and gain. s, for assessing
COURSE SUBJEC CO # BEEP-801.1 BEEP-801.2	Model a Analyze the man Demons control s Design	nd analyze a the time and gins and stab strate the Tim systems' for a	control syst frequency r illity of open e Domain a assessing th pensator for	em in the esponses loop as v nd freque e system the 'high-	YEAR: Introl System RSE OUTC CO form of transf s of SISO and vell as closed I ency domain re stability and c	s LAB OMIES STATE er function MIMO line coop contresponse a control act order and	n, in MA ear time rol system inalysis con. I above)	TLAB, invaria ms. of pow	considerin ant systems er-sector b	SEMESTER: JECT CODE: g it's zeros, poles via various plot	VIII BEEP- 801 s and gain. s, for assessing

	Design P, PI as well as PID controllers for continuous process control and tuning of 'temperature, level and pressure based'										
BEEP-801.5	closed loop control systems.										
BRANCH			EEE /B.Tech III			SESSION:	2022-23				
COURSE:		B.TECH- EEE	YEAR:	III		SEMESTER:	VI				
SUBJECT			Minor Project I			JECT CODE:	BEEP-607				
	COURSE OUTCOMES (CO)										
CO#		CO STATEMENT									
BEEP-607.1	Develop a structured thought process for preparing and delivering presentations effectively.										
BEEP-607.2	Enhance	Enhance language proficiency and communication skills to convey ideas clearly and effectively.									
BEEP-607.3	Foster an understanding of diverse viewpoints, promoting collaboration and teamwork.										
	II .	Researching and staying informed about emerging technologies, regulations, and innovations to adapt and respond to industry changes effectively.									
BEEP-607.5	Cultivate	Cultivate critical thinking skills and problem-solving abilities to address challenges in power systems engineering.									

BRANCE		EEE /B.Tech IV		SESSION:	2022-23				
COURSE		B.TECH- EEE YEAR:	IV	SEMESTER:	VIII				
SUBJEC.	T:	Electric Drives & its Application		SUBJECT CODE:	BEET 802				
		COURSE OUTCOME	S (CO)						
CO#		CO STA							
	Differe	entiate electric drives systems based on nature	of loads, control ob	ojectives, performar	ice and				
BEET 802.1	reliabil								
	Analyz	e load characteristics, torque-speed requirem	ents, duty cycles, ar	nd environmental co	onditions to				
BEET 802.2									
BEET 802.3	Illustra	ate the concept of braking to distinguish types	of machines in elect	ric drives					
		op capability to choose a suitable electrical ma			involvina				
BEET 802.4		stimation and load cycle consideration.	ommo ana i omor Ei		volvilig				
DLL1 002.4	load c.	stillation and load cycle consideration.							
DEET 000 5	Dooigr	a the frequency controlled convertors used me	tor drives utilising n	haaa aantrallad aan	vortoro				
BEET 802.5	Desigi	n the frequency controlled converters used mo	tor unives utilising p	nase controlled cor	verters.				
BRANCH	J	EEE /B,Tech III		SESSION:	2022-23				
COURSE		B.TECH- EEE YEAR:		SEMESTER:	VI				
SUBJEC		POWER ELECTRONICS		SUBJECT CODE:	BEET 601				
SOBJEC	1.	COURSE OUTCOME		SOBSECT CODE.	DELT 00				
CO#		CO STAT							
BEET 601.1	Apply basic semiconductor physics to properties of power devices, and combine circuit mathematics and characteristics of linear and non linear devices. Apply the laws of electrical heating in various industrial and domestic processes								
BEET 601.2 BEET 601.3	Compare performance of various power semiconductor devices, passive components and switching circuits. Analyze power converter circuits and learn to select suitable power electronic devices by assessing the requirements of application fields								
BEET 601.4	Formula apparat	ate typical alternative solutions,using suitable power co us	nverters to control Elect	trical Motors and other	industry				
BEET 601.5	Design	rectifiers, inverters, choppers, and cycloconverters bas	ed on given specificatio	ons and requirements.					
BRANCH		EEE /B.Tech II		SESSION:	2022-23				
COURSE:		B.TECH- EEE YEAR:	I	SEMESTER:	IV				
SUBJEC	T:	CONTROL SYSTEM		SUBJECT CODE:	BEET 405				
		COURSE OUTCOME							
CO#		CO STAT	EMENT						
BEET 405.1	1 -	rize different types of system and identify a set of algeb nore simplified form	raic equations to repres	sent and model a comp	licated syste				
BEET 405.2	Apply st	tandard test signals to a system to determine their char	acteristics.						

I									
BEET 405.3	Examine	e the system behaviou	r using vari	ous stability and	alysis techniqu	ies.			
BEET 405.4	Analyze	the stability of various	linear time	invariant syste	ms using freq	uency respo	nse metl	nods.	
BEET 405.5	Identify system.	the needs of different	types of cor	ntrollers and co	mpensator to	ascertain the	e require	d dynamic respon	se from the
BRANCI			,	CEE/D Tools	V			SESSION:	2022-23
BRANCH		B.TECH- ER		EEE /B.Tech I	v I	IV		SEMESTER:	2022-23 VIII
SUBJEC			ic Drives	& its Applicat			SUB	JECT CODE:	BEEP 802
CO #			COU	RSE OUTCO	OMES (CO STATEME				
BEEP 802.1	Analyze the four quadrant operation of motor drives.								
BEEP 802.2	Examine	e the operation of thre	e phase full	y and half contr	olled converte	ers for differe	ent types	of loads experime	entally.
BEEP 802.3	Develop	testing and experime	ntal proced	ures applying b	asic knowledg	e in electror	nics, elec	trical circuit analy	sis, electrical m
BEEP 802.4	Illustrate	e operation and analys	is of differe	nt converters w	ith reference t	o control stra	ategy.		
BEEP 802.5		the performance cha							
BRANCH		B.TECH- EI		EEE /B.Tech I YEAR:	II	Ш		SESSION: SEMESTER:	2022-23 VI
SUBJEC			OWER EL	ECTRONICS			SUB	JECT CODE:	BEEP 601
CO #			COU	RSE OUTCO	DMES (CO				
CO#						N I			
BEEP 601.1		the power characteris							
BEEP 601.2		e the performance of A				·			
BEEP 601.3	Compar	e and contrast various	power sen	niconductor dev	ices accordin	g to their app	plications	S	
BEEP 601.4	Analyze	phase controlled conv	erter circui	t with different l	oad conditions	S			
BEEP 601.5	Constru	ct power semiconduct	or circuits fo	or industrial app	lications.				
BRANCH	1.			EEE /B.Tech				SESSION:	2022-23
COURSE		B.TECH		YEAR: 2		EEE		SEMESTER:	4
SUBJEC	T:			cal Machine-			SUB	JECT CODE:	BEET-402
CO#			COU	COS	STATEME!	V I			
BEET402.1	Analyse	theoretically, the pe	rformance	characteristic	s for differen	t electrical	machin	es.	
BEET402.2	Examin situatio	e the testing of diffens.	rent electri	cal machines s	so as to iden	tify their app	plicabili	ty in different pra	actical
BEET402.3	Illustrat	e the constructional	details and	d principle of c	peration of [OC & AC ma	ıchines.		
	Ì			-					
BEET402.4	Apply th	ne knowledge about	starting an	id speed contr	ol, testing an	d applicatio	ons of d	c motors.	
BEET402.5	Illustrat	e the construction, o	peration. a	and characteris	stics of comr	nonly used	dc mac	nines.	
	-11		,, •			,			
BRANCE		B.TECH		EEE /B.Tech YEAR: 2		EEE		SESSION: SEMESTER:	2022-23 4
SUBJEC		<u> </u>		cal Machine-			SUB	JECT CODE:	BEET-402
CO#			COU	RSE OUTCO	OMES (CO				
BEEP402.1	Develor	oing the skill of opera	ating differ				technic	lues	
BEEP402.2	<u> </u>	ning different tests o							
BEEP402.3	Acquiri	ng understanding of	DC & AC n	nachine param	eters.				
BEEP402.4	Determ perforn	ine the parameters o nance	r equivaler	nt circuit of sin	gle phase tra	nsformer a	nd three	phase transfor	ner.
BEEP402.5	Providi	ng a foundational un	derstandin	g of electrical	numbers and	d practical e	expertise	o for DC circuit a	nalysis
				l l	1		ı		u u

BRANCH:			EEE /E	3.Tech III				SESS		2022	2-23
COURSE:		B.TECH- EEE	YE	EAR:				SEME	STER:	V	
SUBJECT	:	Ener	gy Manageme	ent & SCADA			SUBJ	ECT C	ODE:	BEET-6	05 (C)
	COURSE OUTCOMES (CO)										
CO #				COSTAT							
BEET-605 (C).1	Apply th	e principles of PLC, DCS	s, and SCADA to	industrial auto	mation.						
		the hardware and softwa									
	Demonstrate the SCADA principle in various applications.										
	Simulate the safety-instrumented systems as per safety regulations.										
	Demonstrate the SCADA principle in various applications.										
BRANCH											2-23
COURSE		B.TECH- EEE		AR:	N	, 		SEME		VI	
SUBJECT			-Medical Instr			1	SUBJ	ECT C		BEET 8	
332020		2.0		DUTCOMES	S (CO)						(=)
CO#			<u>cccare_r</u>	CO STAT							
	Identify:	the biological system's pl	nysiology	0001711							
		e physiological and medic									
		their knowledge on the		es in the field of	therany an	d diagno	neie				
		e the applications and se				u ulagric)313 .				
		e ECG and EEG design p		in the medical i	ieiu.						
BRANCH		e ECG and EEG design p		EE			 1	SESS	TON.	2022	2 2 2
COURSE		B.TECH		AR:	1	 		SEME		2022 \	
SUBJECT		В.ТЕСП	Digital Elect		I	<u> </u>	CLID	ECT C		BEC1	
SUBJECT					e icol		2000	ECIC	ODE:	BEU	-4 01
CO #			COURSE	OUTCOMES	3 (CO)						
CO#				CO STAT							
	Comprehend and analyze digital logic circuit ,binary codes,number system and different types of minimization methods.									on	
BECT401.2	Analyze the characteristics of logic families and semiconductor memories.Compare their performance in terms of performance metric									ms of	
BECT401.3	Analyze digital systems for their performance, timing characteristics, and hazards.										
	Design & implement combinational logic circuits for specific functions, such as adders, subtractors, multiplexers and decoders.									exers,	
	Design	& implement sequentia			-flops, cou	ınters, r					
BRANCH:			EEE /B.Tech I	<u> </u>			SESS		2022		
COURSE:		B.TECH- EEE	YEAR:		<u>III</u>		SEMES				
SUBJECT:		Microprocessor	· & Embedded	l systems		SUBJ	JECT C	ODE:	BECT	602	
60 "											
CO#											
		nicroprocessor techniq									
		8086 microprocessor									
BECT 602.3		e 8085 and 8086 microբ				ograms.	1				
BECT 602.4		ent assembly language		86 microproce	essor.						
BECT 602.5	Analyze interfacing of 8086 microprocessor										
BRANCH:			EEE /B.Tech I	ll .			SESS	ION:	2022	2-23	
COURSE:		B.TECH- EEE	YEAR:		III		SEMES	STER:	٧	1	
SUBJECT:		Microprocessor 8		system Lab		SUB	ECT C		BECF	P-602	
	1				ļ						
CO#											
BECP 602.1	Apply m	nicroprocessor techniq	ues to solve n	oblems							
BECP 602.2											
BECP 602.3	Analyze 8086 microprocessor for a given problem. Examine 8085 and 8086 microprocessor using assembly language programs.										
BECP 602.4	Implement assembly language program in 8086 microprocessor.										
BECP 602.5			<u> </u>	oo microproce	235UI.						
DEUP 002.5	Anaiyze	interfacing of 8086 mi	croprocessor								