BRANCH:	ECE/B.Tech		SESSION:	2022-23		
COURSE: SUBJECT:	B.TECH- ECE YEAR: Networks analysis and syn	thesis II	SEMESTER: SUBJECT CODE:	BEET-305		
Sebele1:		UTCOMES (CO)	SCHOLET CODE.	DEE 1-303		
CO #	CO STATEMENT					
BEET 305.1	Apply network topology concepts to the formulation and resolution of electrical network issues.					
BEET 305.2	Determine the attributes and traits of network functions and confirm the mathematical limitations for their practical implementation.					
BEET 305.3	Synthesize passive two-port networks filters using standard Foster and Cauer forms.					
BEET 305.4	Apply the concept of Laplace and Fourier transform	ns in electrical network problen	ns.			
BEET 305.5	To analyze the behaviour of the circuit in different o	lomains.				
BRANCH:	ECE /B.Tech	III	SESSION:	2022-23		
COURSE:	B.TECH- ECE YEAR:		SEMESTER:	V		
SUBJECT:	Microprocessor and and in	erfacing		BECT-501		
		JICOMES (CO)				
CO#		COSTATEMENT				
BECT501.1	Apply microprocessor techniques to solve pro	blems.				
BECT501.2	Analyze 8086 microprocessor for a given probl	em.				
BECT501.3	Examine 8085 and 8086 microprocessor using		ns.			
BECT501.4	Implement assembly language program in 808	6 microprocessor.				
BECT501.5	Design small circuits using 8051 microcontroll	er .				
220.001.0	besign sman circuits using 0001 microcontrol	oi.				
DDANGU.	FOE ID Took	111	OFOCION.	2000 02		
BRANCH:	B.TECH- ECE   YEAR:		SESSION:	2022-23 V		
SUBJECT:	Microprocessor and and inter			BECP-501		
	COURSE O	JTCOMES (CO)				
CO #		CO STATEMENT				
BECP 501.1	Analyze 8085 and 8086 kits used in writing pro					
BECP 301.2	Analyze addition of two 16 bit numbers using 8 Examine multiplication and division of 16 bit n		microprocesor			
BECP 501.4	Implement assembly language program in 808		illicroprocessor.			
BECP 301.3	Analyze interfacing of 8086 microprocessor wi					
BRANCH:	ECE /B.Tech	IV	SESSION:	2022-23		
COURSE:	B.TECH- ECE YEAR:	IV	SEMESTER:	VII		
SUBJECT:	Digital Image Process	iiiy	SUBJECT CODE:	BECT-703(B)		
	COURSE O	JTCOMES (CO)				
CO#		CO STATEMENT				
BEC1703.1	Analyze steps used in Digital Image processing.					
BEC1703.2	Determine Histogram Processing and different types of filters used in image processing.					
BEC1703.3	Illustrate Filtering methods and morphological Analyze Segmentation in point, line, and edge.	processing.				
BEC1703.5	Examine Video coding and video segmentation	in Image Processing.				
BRANCH:	ECE /B.Tech		SESSION:	2022-23		
COURSE:	B.TECH- ECE YEAR:	11	SEMESTER:	III		
SUBJECT:	VISI technology & Desi		SUBJECT CODE:	BECT-503		
CO#		UTCOMES (CO)				
BECT 503.1	Apply the concept of VLSI technology to solve					
BECT 503.1	Determine the IC abrication process.	and problemo.				
BECT 503.3	Analyze the loiw power VLSI circuits.					
BEC 1 503.4	Implement CMOS techniques to solve the problems					
BECT 503.5	Design VLSI circuits using tools.		OF COLON	2022.02		
BRANCH: COURSE:	B.TECH- ECE YEAR:		SESSION: SEMESTER:	2022-23 III		
COURSE:	D. I EUR- EUE TEAR:	II	SEIVIES I ER:	III		

SUBJECT:	Electronics Devices	SUBJECT CODE:	BECT-304		
	COURSE OUTCOMES (CO)				
CO#	CO STATEMENT				
BECT 304.1	Illustrate various characterstics of a semiconductor				
BECT 304.2	Apply the laws of semiconductor physics to solve the problems				
BECT 304.3	Examine the various application of diode				
BECT 304.4	Analyze various transistor configuration				
BECT 304.5	Assess various parameter and characterstics of Field effect transis		r 1		
BRANCH:	ECE /B.Tech	SESSION:	2022-23		
COURSE: SUBJECT:	B.TECH- ECE YEAR: II  Electronics Devices Lab	SEMESTER:	BECP-304		
	COURSE OUTCOMES (CO)				
CO#	COURSE OUTCOMES (CO)				
BECP 304.1	Examine the various lab equipment and components needed in elec	ctronics			
BECP 304.2	Conduct performance characterstics curve of various diode				
BECP 304.3	Analyze the input and output characteristics and H parameter oF B				
BECP 304.4	Identify Magnitude vs frequency curve and measure bandwidth in F	ET			
BECP 304.5	Implement various electronics circuit in breadboard				
BRANCH:	ECE /B.Tech II	SESSION:	2022-23		
COURSE: SUBJECT:	B.TECH YEAR: II  Electronic measurement & instrumantation	SEMESTER: SUBJECT CODE:	BECT-302		
	COURSE OUTCOMES (CO)	COLUMN TO SEE			
CU #	CUSTATEMENT				
BECT302.1 BECT302.2	Apply the performance characteristics of each instrument. Demonstrate basic meters such as voltmeters and ammeters and Disting	uish various types of brid	dge based on gu		
BEC1302.3	Apply the complete knowledge of various electronics instruments/transdi	ucers to measure the phy	sical quantities		
BECT302.4 BECT302.5	Compute the basic features of oscilloscope and distinguish between vari	ous types of oscilloscop	es		
	Evaluate the many kinds of signal analyzers	CECCION.	2000 00		
BRANCH:	ECE /B.Tech II B.TECH YEAR: II	SESSION:	2022-23		
SUBJECT:	Electronic measurement & instrumantation Lab	SUBJECT CODE:	BECP-302		
	COURSE OUTCOMES (CO)				
CO#	CO STATEMENT				
BECP302.1 BECP302.2	Analyze the performance characteristics of each instrument. Demonstrate basic meters such as voltmeters and ammeters and Disting	uich verious types of brie	dae beeed en au		
BECP302.2	Apply transducers for the measurement of physical quantities like temper	rature, pressure, distanc	e and displacem		
BECP302.4	Compute the basic features of oscilloscope and distinguish between vari	ous types of oscilloscop	es		
BECP302.5	Categorize the many kinds of signal analyzers	07001011			
BRANCH:	EEE /B.Tech II B.TECH YEAR: IV	SESSION:	2022-23 VII		
SUBJECT:	MICROWAVE ENGINEERING	SUBJECT CODE:	BECT-701		
	COURSE OUTCOMES (CO)				
00 #					
CO # BECT701.1	CO STATEMENT  Analyze different active and passive microwave components.				
BEC1701.1	Demonstrate the propagation through waveguide and examine the power				
BEC1701.3	Apply the formulation and properties for procedure to measure different parameters like VSWR, impedance, frequ				
BEC1701.4 BEC1701.5	Classify the characteristics of different microwave devices for practical a Point out the principle of operation and its performance characteristics a		ave tubes.		
BRANCH:	EEE /B.Tech II	SESSION:	2022-23		
COURSE:	B.TECH YEAR: IV	SEMESTER:	VII		
CUD ITOT	MICROWAVE ENGINEERING LAR	CUR IECT CODE	BECD 704		
SUBJECT:	MICROWAVE ENGINEERING LAB	SUBJECT CODE:	BECP-701		
	COURSE OUTCOMES (CO)				
CO # BECP701.1	CO STATEMENT Identify the working of microwave test bench and its different component	'e			
BECP701.1	Examine different microwave parameters including guide wavelength, VS		e and reflection		
BECP701.3	Analyze the characteristics of Gunn diode and the output power obtained				
BECP701.4 BECP701.5	Sketch the characteristics of simple microwave circuits like couplers, pow Analyze the square wave modulation of Microwave signal using PIN diode		ing.		
BRANCH:	EEE /B.Tech II	SESSION:	2022-23		
COURSE:	B.TECH YEAR: III	SEMESTER:	V V		
	···				

SUBJECT:	COMPUTER SY	STEM ORGANISA	TION	SUB	JECT CODE:	BOEC 505(B)	
		COURSE OUTCO	DMES (CO)				
CO#	CO STATEMENT Identify basic instructions sets to solve real life problems.						
	Classify different memory organization.						
	Understand the interfacing of external device with computer						
BOEC505B.4	Apply algorithms for ALU design.						
BOEC505B.5							
BRANCH:		ECE /B.Tech			SESSION:	2022-23	
COURSE:	B.TECH- ECE	YEAR:	III		SEMESTER:	V	
SUBJECT:		netic Field Theory		SUB	JECT CODE:	BECT-502	
	COURSE OUTCOMES (CO)						
CO#		COS	STATEMENT				
BECT 502.1	Differentiate different field pat			S.			
BECT 502.2	Explain the effect of dielectric						
	Implement various types of tra						
	Implement various types of m				filtore atc		
	Analyze the VSWR, return los						
BRANCH:	Analyze the vovk, return los	ECE /B.Tech	ion obtained from	Silliulati	SESSION:	2022-23	
DIVAROII.		LOL /B. Tech			3L331014.	2022-23	
COURSE:	B.TECH- ECE	YEAR:	III		SEMESTER:	V	
SUBJECT:	Electromagne	etic Field Theory L	ab	SUB	JECT CODE:	BECP-502	
		COURSE OUTC	OINIES (CO)				
CO #			STATEMENT				
BECP 502.1	Understand the depth of station			eid as go	overned by Max	(well's	
BECP 502.2	Illustrate the applications of s						
BECP 502.3	Examine the characteristics o	f guided waves be	twwen parallel plar	ne and re	ectangular wav	eguide	
	Analyze uniform plane wave p						
BECP 502.5	Apply smith chart for solution	of transmission I	ne problems and in	mpedano	e matching		
BRANCH:		EEE /B.Tech IV			SESSION:	2022-23	
COURSE:	B.TECH- EEE	YEAR:	iV		SEMESTER:	VII	
SUBJECT:	Artificiai	Neural Network		SUB	JECT CODE:	BOEC 704 ( C	
		COURSE OUTC	OMES (CO)			·	
CO#	`		STATEMENT				
	Demonstrate the basic concepts						
	Apply various learning algorithm						
	Analyze the applicability of differ			lem doma	ains.		
	Evaluate the performance and su						
```	Danas maturata tha danisma and incom						
).5	Demonstrate the design and imp		ai network architecti	ures for p	• • • • • • • • • • • • • • • • • • • •	Ī	
BRANCH:		ECE			SESSION:	2022-23	
COURSE:	B.TECH	YEAR:	<u> </u>		SEMESTER:		
SUBJECT:	Digita	I Electronics		SOB	JECT CODE:	BECT-303	
		COURSE OUTC	OMES (CO)				
CO #		CO	TATEMENT				
	Comprehend and analyze digital	logic circuit ,binary	codes,number syste	em and di	fferent types of	minimization	
BEC1303.2	Analyze the characteristics of log	gic families and sen	niconductor memorie	es.Compa	re their perform		
BEC1303.3	Analyze digital systems for their						
BEC   303.4	Design & implement combination						
BEC1303.5	Design & implement sequential I	ogic circuits, includ	ing riip-riops, counte	ers, regis	ters, and state m	iacnines.	
BRANCH:		ECE			SESSION:	2022-23	
COURSE:	B.TECH	YEAR:	11		SEMESTER:	III	
SUBJECT:	Digital i	Electronics Lab		SUB	JECT CODE:	BECP-303	
		COURSE OUTC	OMES (CO)				
CO #			TATEMENT				
BECP303.1	Apply the basics of digital electron						
BECP303.2	Verify the truth table of different	logic gates using					
BECP303.3	Design combinational logic circu						
BECP303.4	Design sequential logic circuits						
BECP303.5	Acquire skills of team work, tech	inical communication	n and effective repo	rt			
BRANCH:		ECE /B.Tech III			SESSION:	2022-23	
COURSE:	B.TECH- ECE	YEAR:			SEMESTER:	Z0ZZ-Z3	
		<u> </u>					
SUBJECT:	Data Comm	nunication networl	(	SUB	JECT CODE:	BECT-504(B)	
		COURSE OUTS	OMEO (00)				
		COURSE OUTC					
CO#			SIAIEMENI				

Design and implement computer networks, considering factors such as scalability, performance, security, and incident in the process of the pr	BECT504.1	Understanding of fundamental networking concepts, including protocols, architectures, topologies, and technologies.						
BECT504.3 network communication effectively.  BECT504.4 nandyze issues of routing and congestion mechanism for independent and internetworking networks for wired and wireless link.  BECT504.5 SMTP, FTP, HTTP, WWW, Security and network LAN)  BECT504.5 SMTP, FTP, HTTP, WWW, Security and network LAN)  BRANCH:	BECT504.2	·······································						
### BECT904.5 and wiroless link.  ### BECT904.5 SMTP, FTP, HTTP, WWW, Security and network LAN)  ### BECT904.5 SMTP, FTP, HTTP, WWW, Security and network LAN)  ### BECT904.5 SMTP, FTP, HTTP, WWW, Security and network LAN)  ### BECT904.5 SMTP, FTP, HTTP, WWW, Security and network LAN)  ### BECT904.5 SMTP, FTP, HTTP, WWW, Security and network LAN)  ### BECT904.5 SMTP, FTP, HTTP, WWW, Security and network LAN)  ### BECT904.5 SMTP, FTP, HTTP, WWW, Security and network LAN)  ### BECT904.5 SMTP, FTP, HTTP, WWW, Security and network LAN)  ### BECT904.5 SMTP, FTP, HTTP, WWW, Security and network LAN)  ### BECT904.5 SMTP, HTTP, WWW, Security and network LAN)  ### BECT904.5 SMTP, HTTP, WWW, Security and network LAN, William LAN, Will	BECT504.3	network communication effectively.						
BECT702.1  BECT702.3  BECT702.4  Analyze the channel impairments: losses and dispersion.  Design and analyze optical fiber networks for various applications, considering factors such as network topology, signal loss, dispersion, and noise and themsel.  BECT702.1  BECT702.5  BECT702.5  BECT702.6  BECT702.6  BECT702.7  Analyze the channel impairments: losses and dispersion.  Design and analyze optical fiber networks for various applications, considering factors such as network topology, signal loss, dispersion, and noise.  BECT702.5  BECT702.6  BECT702.7  BECT702.7  Analyze the channel impairments: losses and dispersion.  Design and analyze optical fiber networks for various applications, considering factors such as network topology, signal loss, dispersion, and noise.  BECT702.5  BEANCH:  COURSE:  B.TECH-ECE YEAR:  UI SEMSISTER: VII SE	BECT504.4	and wireless link.		•				
SUBJECT OPTICAL PIDENT COMMUNICATION SUBJECT CODE: BECT-702  CO # CO STATEMENT  BECT702.1  BECT702.2  BECT702.2  BECT702.2  BECT702.2  BECT702.2  BECT702.2  BECT702.3  BECT702.3  BECT702.4  Analyze the channel impairments: losses and dispersion.  Design and analyze optical fiber networks for various applications, considering factors such as network topology, signal loss, dispersion, and noise.  BECT702.5  BECT702.5  BECT702.4  Analyze the channel impairments: losses and dispersion.  Design and analyze optical fiber networks for various applications, considering factors such as network topology, signal loss, dispersion, and noise.  BECT702.5  BRANCH: ECE /B.Tech VII SESSION: 2022-23  SUBJECT CODE: BECP-702  CO # CO STATEMENT  Ability to characterize optical fibers in terms of parameters such as core diameter, numerical aperture, attenuation coefficient, and dispersion characteristics.  BECP702.1  Holdestanding the operation and characteristics of optical sources (such as light-emitting diodes (LEDs) and laser diodes) and detectors (such as photodiodes) used in fiber optic communication systems.  BECP702.4  BECP702.5  BECP702.5  BECP702.6  BECP702.7  BECP702.7  BECP702.8  BECP702.9	BECT504.5			per of common Inter	net applications and pro	otocols(DNS,		
COURSE OUTCOMES (CO)  CO #  CO STATEMENT  Understanding of the basic principles of optical fiber communication, including light propagation, total internal re  BECT702.2  Illustrate the operation and working of Optical sources (LED and LASER) and detectors (PIN and Avalanche Photo Integrate knowledge of optical communication systems to analyze the optical receivers structure and performance.  BECT702.3  BECT702.4  Analyze the channel impairments: losses and dispersion.  Design and analyze optical fiber networks for various applications, considering factors such as network topology, signal loss, dispersion, and noise.  BECT702.5  BRANCH:  BECP702.1  Ability to characterize optical fibers in terms of parameters such as core diameter, numerical aperture, attenuation coefficient, and dispersion characteristics.  Understanding the operation and characteristics of optical sources (such as light-emitting diodes (LEDs) and laser diodes) and detectors (such as photodiodes) used in fiber optic communication systems.  Familiarity with techniques for measuring optical power, attenuation, and dispersion in optical fibers.  BECP702.4  Analyzing the impact of noise sources (such as shot noise and thermal noise) and fiber impairments on the performance of optical communication systems, including bit error rate (BER) analysis.  BECP703.5  BRANCH:  COURSE SIECH ECE YEAR: III SERSION: 2022-3  COURSE SIECH								
BECT702.1  BECT702.2 Illustrate the operation and working of Optical fiber communication, including light propagation, total internal re BECT702.2 Illustrate the operation and working of Optical sources (LED and LASER) and detectors (PIN and Avalanche Photo Integrate knowledge of optical communication systems to analyze the optical receivers structure and performance.  BECT702.4 Integrate knowledge of optical communication systems to analyze the optical receivers structure and performance.  BECT702.5 Integrate the channel impairments: losses and dispersion.  Dasign and analyze optical fiber networks for various applications, considering factors such as network topology, signal loss, dispersion, and noise.  BERANCH: ECE   YEAR:   VII   SESSION: 2022-23  SUBJECT: OFC LAB   SUBJECT CODE: BECP-702  OUT   SUBJECT   SUBJECT CODE: BECP-702  BECP702.1   Ability to characterize optical fibers in terms of parameters such as core diameter, numerical aperture, attenuation coefficient, and dispersion characteristics of optical sources (such as light-emitting diodes (LEDs) and laser diodes) and detectors (such as photodiodes) used in fiber optic communication systems.  BECP702.2   Assessing the performance of optical networks in terms of capacity, latency, and reliability under different operating conditions and configurations.  Analyzing the impact of noise sources (such as shot noise and thermal noise) and fiber impairments on the performance of optical communication systems, including bit error rate (BER) analysis.  BECP703.4   Assessing the performance of optical networks in terms of capacity, latency, and reliability under different operations and configurations.  Analyzing the impact of noise sources (such as shot noise and thermal noise) and fiber impairments on the performance of optical communication systems, including bit error rate (BER) analysis.  BECP703.5   Analyzis various amplifiers using simulation tools.  BECP903.6   Assessing the performance of configuration tools.  BECP903.7   SESSION: 2022-2 2022-2 2022-	SUBJECT:	Optical Fi			SUBJECT CODE:	BECT-702		
BECT702.1 Understanding of the basic principles of optical fiber communication, including light propagation, total internal re BECT702.2 Illustrate the operation and working of Optical sources (LED and LASER) and detectors (PIN and Avalanche Photo Integrate knowledge of optical communication systems to analyze the optical receivers structure and performance.  BECT702.4 Analyze the channel impairments: losses and dispersion.  Design and analyze optical fiber networks for various applications, considering factors such as network topology, signal loss, dispersion, and noise.  BECT702.5 BRANCH:  COURSE: B.TECH-ECE YEAR: VII SESSION: 2022-23  COURSE: B.TECH-ECE YEAR: VII SEMESTER: VII			COURSE OUTCOM	MES (CO)				
BECT702.1 Understanding of the basic principles of optical fiber communication, including light propagation, total internal re BECT702.2 Illustrate the operation and working of Optical sources (LED and LASER) and detectors (PIN and Avalanche Photo Integrate knowledge of optical communication systems to analyze the optical receivers structure and performance.  BECT702.4 Analyze the channel impairments: losses and dispersion.  Design and analyze optical fiber networks for various applications, considering factors such as network topology, signal loss, dispersion, and noise.  BECT702.5 BRANCH:  COURSE: B.TECH-ECE YEAR: VII SEMESTER: VII SEMESTER: VII SUBJECT COURSE: B.TECH-ECE YEAR: VII SEMESTER:	CO#		CO ST	ATEMENT				
BECT702.3  BECT702.4  Analyze the channel impairments: losses and dispersion.  Design and analyze optical fiber networks for various applications, considering factors such as network topology, signal loss, dispersion, and noise.  BRANCH:  COURSE:  B.TECH-ECE  YEAR:  OURSE:  B.TECH-ECE  YEAR:  OURSE:  B.TECH-ECE  YEAR:  Ability to characterize optical fibers in terms of parameters such as core diameter, numerical aperture, attenuation coefficient, and dispersion characteristics of optical sources (such as light-emitting diodes (LEDs) and laser diodes) and detectors (such as photodiodes) used in fiber optic communication systems.  Familiarity with techniques for measuring optical power, attenuation, and dispersion in optical fibers.  BECP702.3  Assessing the performance of optical networks in terms of capacity, latency, and reliability under different operating conditions and configurations.  BECP702.5  BRANCH:  COURSE:  B.TECH-ECE  YEAR:  Assessing the performance of optical networks in terms of capacity, latency, and reliability under different operating conditions and configurations.  BECP702.5  BRANCH:  COURSE:  B.TECH-ECE  YEAR:  III  SESSION:  Z022-23  CUIRSE:  SUBJECT CODE:  BECP503.7  BECP709.3  SIMULATION SOFT NAME IN SUBJECT CODE:  BECP508.1  BECP508.1  SUBJECT CODE:  BECP508.1  BECP508.2  Acquire a thorough understanding of the several types of simulation methods utilized in electrical Engineering.  BECP508.3  BECP508.1  COURSE:  B.TECH  YEAR:  SUBJECT CODE:  BECP508.5  BECP508.7  Acquire a thorough understanding of the several types of simulation methods utilized in electrical Engineering.  BECP508.5  BECP508.7  Analyzes winulation moders to solve real-verific engineering problems encountered in electrical Systems.  BECP508.5  BECP508.5  Acquire a thorough understanding of the several types of simulation methods utilized in electrical Engineering.  BECP508.5  BECP508.7  Analyzes simulation moders of the several types of simulation methods utilized in electrical Engineering.  BECP508.5  Acquire a thoro		<b>.</b>		·				
BECT702.4 Analyze the channel impairments: losses and dispersion.  Design and analyze optical fiber networks for various applications, considering factors such as network topology, signal loss, dispersion, and noise.  BRANCH:	BECT702.2							
Design and analyze optical fiber networks for various applications, considering factors such as network topology, signal loss, dispersion, and noise.  BRANCH:  ECE B. Ech VII  SEMESTER:  VII	BECT702.3		communication systems	s to analyze the option	cal receivers structure a	ind		
Design and analyze optical fiber networks for various applications, considering factors such as network topology, signal loss, dispersion, and noise.  BRANCH: ECE /B.Tech VII SEMSITER: VII SUBJECT CODE: BECP-702 COURSE: B.TECH-ECE YEAR: VII SEMSITER: VII SUBJECT CODE: BECP-702 COURSE: B.TECH-ECE YEAR: VII SEMSITER: VII SEMSITER: VII SUBJECT CODE: BECP-702 COURSE COURSE: B.TECH-ECE YEAR: VII SEMSITER: VII	BECT702.4	Analyze the channel impairmer	nts: losses and dispersio	on.				
SUBJECT:  OF LAB  OF LAB  SUBJECT CODE:  BECP-702  CU#  CU#  Ability to characterize optical fibers in terms of parameters such as core diameter, numerical aperture, attenuation coefficient, and dispersion characteristics.  Understanding the operation and characteristics of optical sources (such as light-emitting diodes (LEDs) and laser diodes) and detectors (such as photodiodes) used in fiber optic communication systems.  Familiarity with techniques for measuring optical power, attenuation, and dispersion in optical fibers.  BECP702.3  Assessing the performance of optical networks in terms of capacity, latency, and reliability under different operating conditions and configurations.  Analyzing the impact of noise sources (such as shot noise and thermal noise) and fiber impairments on the performance of optical communication systems, including bit error rate (BER) analysis.  BRANCH:  COURSE:  B.TECH-ECE YEAR:  U.SI LAB SUBJECT CODE:  BECP303.  BECP303.  BECP303.  Acquire skills of team work, technical communication and effective report writing.  BECP303.  BECP	BECT702.5			pplications, conside	ering factors such as ne	twork		
Ability to characterize optical fibers in terms of parameters such as core diameter, numerical aperture, attenuation coefficient, and dispersion characteristics.  Understanding the operation and characteristics of optical sources (such as light-emitting diodes (LEDs) and laser diodes) and detectors (such as photodiodes) used in fiber optic communication systems.  BECP702.4 laser diodes) and detectors (such as photodiodes) used in fiber optic communication systems.  BECP702.5 Familiarity with techniques for measuring optical power, attenuation, and dispersion in optical fibers.  BECP702.6 Analyzing the performance of optical networks in terms of capacity, latency, and reliability under different operating conditions and configurations.  Analyzing the impact of noise sources (such as shot noise and thermal noise) and fiber impairments on the performance of optical communication systems, including bit error rate (BER) analysis.  BRANCH: ECE /B.Tech III SESSION: 2022-23  COURSE: B.TECH-ECE YEAR: III SEMESTER: V  SUBJECT: U.S.I LAB SUBJECT CODE: BECP-503  BECP903.1 BECP903.2 DECP903.3 Simulate memories using simulation tools.  BECP903.2 Simulate memories using simulation tools.  BECP903.3 Simulate memories using simulation tools.  BECP903.4 Acquire a thorough understanding of the several type of simulation methods utilized in electrical Engineering.  BECP905.5 SIMULATION SOFT WARE LAB SUBJECT CODE: BECP-506  COURSE: B.TECH YEAR: 3RD SUBJECT CODE: BECP-506  COURSE: B.TECH YEAR: 3RD SUBJECT CODE: BECP-506  COURSE: SUBJECT CODE: BECP-506  COURSE: B.TECH YEAR: 3RD SUBJECT CODE: BECP-506  COURSE: B.TECH YEAR: 3RD SUBJECT CODE: BECP-506  COURSE: B.TECH YEAR: 3RD SUBJECT CODE: BECP-506  COURSE: SUBJECT CODE:								
Ability to characterize optical fibers in terms of parameters such as core diameter, numerical aperture, attenuation coefficient, and dispersion characteristics.  Understanding the operation and characteristics of optical sources (such as light-emitting diodes (LEDs) and laser diodes) and detectors (such as photodiodes) used in fiber optic communication systems.    Familiarity with techniques for measuring optical power, attenuation, and dispersion in optical fibers.    BECP702.3		B.TECH- ECE		VII				
Ability to characterize optical fibers in terms of parameters such as core diameter, numerical aperture, attenuation coefficient, and dispersion characteristics.  Understanding the operation and characteristics of optical sources (such as light-emitting diodes (LEDs) and laser diodes) and detectors (such as photodiodes) used in fiber optic communication systems.  Familiarity with techniques for measuring optical power, attenuation, and dispersion in optical fibers.  BECP702.4  Assessing the performance of optical networks in terms of capacity, latency, and reliability under different operating conditions and configurations.  Analyzing the impact of noise sources (such as shot noise and thermal noise) and fiber impairments on the performance of optical communication systems, including bit error rate (BER) analysis.  BRANCH:  ECE /B.Tech III  SESSION: 2022-23  SUBJECT:  V.S.I LAB  SUBJECT CODE:  BECP303.1  BECP303.2  BECP303.3  BECP303.4  BECP303.4  Analyze various amplifiers using simulation tools.  BECP303.4  BECP303.5  BECP303.5  BRANCH:  COURSE:  B.TECH  YEAR:  3RD  SEMESTER:  VUSUACIONES (SUBJECT CODE:  BECP-506  COURSE:  B.TECH  YEAR:  3RD  SEMESTER:  SUBJECT CODE:  BECP-506  COURSE:  B.TECH  YEAR:  3RD  SEMESTER:  SUBJECT CODE:  BECP-506  COURSE:  B.TECH  SUBJECT  COURSE:  B.TECH  SUBJECT  SUBJECT CODE:  BECP-506  COURSE:  B.TECH  SUBJECT  COURSE:  B.TECH  SUBJECT  SUBJECT  SUBJECT  B.TEC			CUUKSE UUTCUK		0020201 00221	5201 102		
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Assessing the performance of optical networks in terms of capacity, latency, and reliability under different operating conditions and configurations.  Analyzing the impact of noise sources (such as shot noise and thermal noise) and fiber impairments on the performance of optical communication systems, including bit error rate (BER) analysis.  BRANCH:  BRANCH:  BECP702.5  BRANCH:  BECP B.TECH-ECE  YEAR:  SUBJECT CODE:  BECP-503  GUIRS:  GUIRS:						ers.		
BECP702.4 operating conditions and configurations.  Analyzing the impact of noise sources (such as shot noise and thermal noise) and fiber impairments on the performance of optical communication systems, including bit error rate (BER) analysis.  BRANCH:  ECE /B.Tech III SESSION: 2022-23  COURSE:  B.TECH-ECE YEAR: III SEMESTER: V  SUBJECT:  USI LAB SUBJECT CODE: BECP-503  ECUP303.1  BECP303.2  BECP303.3 Analyze various amplifiers using simulation tools.  BECP303.4 Simulate memories using simulation tools.  BECP303.5 Acquire skills of team work, technical communication and effective report writing.  BRANCH:  COURSE:  B.TECH YEAR: 3RD SEMESTER:5th I  SUBJECT:  SIMULATION SOF IWARE LAB SUBJECT CODE: BECP-508  COURSE: SIMULATION SOF IWARE LAB SUBJECT CODE: BECP-508  COURSE: Acquire a thorough understanding of the several types of simulation methods utilized in electrical Engineering, BECP506.3 Categorize simulation techniques to solve real-world engineering problems encountered in electrical Systems.  BECP506.4 Analyze simulation techniques to solve real-world engineering problems encountered in electrical Systems.  BECP506.5 Acquire skills of team work, technical communication and effective report writing.  BRANCH:  BRANCH:  B.Tech 7TH  SESSION:2022-23 2022-23  COURSE: B.TECH YEAR: 4 SEMESTER: 7th	BECP702.3		<b>9</b> (press press	,				
BRANCH:  BRA	BECP702.4		•	s of capacity, latenc	cy, and reliability under o	different		
COURSE: B.TECH-ECE YEAR: III SEMESTER: V SUBJECT: VLSI LAB SUBJECT CODE: BECP-503  COURSE OUT COURSE COURSE COURSE COURSE: BECP-503  BECP503.1 BECP503.2 BECP503.3 Analyze various amplifiers using simulation tools. BECP503.4 Simulate memories using simulation tools. BECP503.5 Acquire skills of team work, technical communication and effective report writing. BRANCH: ECE /B.TeCh 5TH ESSION:2022-2 2022-23  COURSE: B.TECH YEAR: 3RD SEMESTER:5th I SUBJECT: SIMULATION SOFTWARE LAB SUBJECT CODE: BECP-506  COURSE OUTSE OUTCOMES (CO)  CO # COURSE OUTCOMES (CO)  CO # COURSE OUTCOMES (CO)  CO # COURSE OUTCOMES (CO)  BECP506.1 Acquire a thorough understanding of the several types of simulation methods utilized in electrical Engineering, BECP506.5 Apply forecast performance outcomes, assess system behavior, and model electrical circuits by using LSimulation lab. BECP506.5 Analyze simulation models to experimental results or theoretical predictions. BECP506.5 Acquire skills of team work, technical communication and effective report writing.  BRANCH: (B.Tech 7TH SESSION:2022-23 2022-23  COURSE: B.TECH YEAR: 4 SEMESTER: 7th	BECP702.5		•					
CU# CUSTATEMENT  BECP503.1  BECP503.2  BECP503.4  BECP503.5  BECP503.6  BECP503.6  BECP503.6  BECP503.7  BECP503.7  BECP503.8  BECP503.8  BECP503.9  Analyze various amplifiers using simulation tools.  BECP503.9  BECP503.9  BECP503.9  BECP503.0  BECP503.0  BECP503.0  BECP503.0  BECP503.0  BECP505.1  BECP506.1  BECP506.2  BECP506.2  BECP506.2  BECP506.3  BECP506.4  BECP506.5  BECP506.5  BECP506.5  BECP506.5  BECP506.5  BECP506.5  BECP506.5  BECP506.5  BECP506.6  BECP506.6  BECP506.6  BECP506.7  BECP506.8  BECP506.	BRANCH:				, <b>,</b>	its on the		
BECP503.2  BECP503.4  BECP503.5  BECP503.5  BECP503.6  BECP503.6  BECP503.7  BECP503.7  BECP503.7  BECP503.8  BECP503.8  BECP503.9  BECP503.9  BECP503.9  BECP503.9  BECP503.9  BECP503.9  BECP503.9  BECP503.9  BECP503.9  BECP504  BECP505.1  Acquire a thorough understanding of the several types of simulation methods utilized in electrical Engineering, BECP506.1  BECP506.2  BECP506.3  BECP506.4  Analyze simulation models to experimental results or theoretical predictions. BECP506.5	- COLIDER		ECE /B.Tech III					
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Analyze various amplifiers using simulation tools.  BECP503.4 Simulate memories using simulation tools.  BECP503.5 Acquire skills of team work, technical communication and effective report writing.  BECP503.5 B.TECH STH ESSION:2022-2 2022-23  COURSE: B.TECH YEAR: 3RD SEMESTER:5th SUBJECT CODE: BECP-506  CO # SUBJECT: CO STATEMENT  BECP506.1 Acquire a thorough understanding of the several types of simulation methods utilized in electrical Engineering,  BECP506.2 Apply forecast performance outcomes, assess system behavior, and model electrical circuits by using Simulation lab.  BECP506.4 Analyze simulation models to experimental results or theoretical predictions.  BECP506.5 Acquire skills of team work, technical communication and effective report writing.  BRANCH: B.Tech 7TH SESSION:2022-23 2022-23  COURSE: B.TECH YEAR: 4 SEMIESTER: 7th	SUBJECT:		YEAR: VLSI LAB COURSE OUTCOM	MES (CO)	SESSION: SEMESTER:	2022-23 V		
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BECP506.4 Analyze simulation models to experimental results or theoretical predictions.  BECP506.5 Acquire skills of team work, technical communication and effective report writing.  BRANCH: /B.Tech 7TH SESSION:2022-23 2022-23 COURSE: B.TECH YEAR: 4 SEMESTER: /tn	BECP503.1 BECP503.2 BECP503.3 BECP503.4 BECP503.5 BRANCH: COURSE: SUBJECT:	Analyze various amplifiers using Simulate memories using simulacquire skills of team work, team work, team work, team simulati	rig simulation tools. Idation tools.	and effective report visit (CO) ATEMENT  3RD  VIES (CO) ATEMENT  ulation methods utilize	SESSION:   SEMESTER:   SUBJECT CODE:   SEMESTER:5th   SEMESTER:5th   SUBJECT CODE:	2022-23 V BECP-503 2022-23 i BECP-506		
BECP506.5 Acquire skills of team work, technical communication and effective report writing.  BRANCH: /B.Tech 7TH SESSION:2022-23 2022-23 COURSE: B.TECH YEAR: 4 SEMESTER: /tn	BECP505.1 BECP503.2 BECP503.3 BECP503.4 BECP503.5 BRANCH: COURSE: SUBJECT:  CO # BECP506.1	Analyze various amplifiers using Simulate memories using simulacquire skills of team work, team wor	rest assess system behavio	and effective report valuation methods utilizar, and model electrical	SESSION:   SEMESTER:   SUBJECT CODE:   SEMESTER:5th   SEMESTER:5th   SUBJECT CODE:	2022-23 V BECP-503 2022-23 1 3ECP-506		
COURSE: B.TECH YEAR: 4 SEMESTER: /tn	BECP508.1 BECP503.2 BECP503.3 BECP503.4 BECP503.5 BRANCH: COURSE: SUBJECT: BECP506.1 BECP506.2	Analyze various amplifiers using Simulate memories using simulate memories using simulate skills of team work,	rg simulation tools. Idation tools . Idation t	and effective report v  3RD  ATEMENT  3RD  ATEMENT  ulation methods utilizer, and model electrical ring problems encount	SESSION:   SEMESTER:   SUBJECT CODE:   SEMESTER:5th   SEMESTER:5th   SUBJECT CODE:	2022-23 V BECP-503 2022-23 1 3ECP-506		
	BECP506.1  BECP506.2  BECP506.1  BECP506.3  BECP506.4  BECP506.4	Analyze various amplifiers using Simulate memories using simulate memories using simulater skills of team work, team work	rig simulation tools.  Ing simulation tools.	and effective report v  3RD  ATEMEN  3RD  ATEMEN  ulation methods utilizer, and model electrical ring problems encount ical predictions.	SESSION: SEMESTER: SUBJECT CODE:  writing. ESSION:2022-2 SEMESTER:5th SUBJECT CODE:  ed in electrical Engineerin circuits by using Simulatered in electrical Esystems	2022-23 V BECP-503 2022-23 1 3ECP-506		
	BECP506.5  BECP506.5  BECP503.2  BECP503.3  BECP503.3  BECP503.4  BECP503.5  BRANCH:  COURSE: SUBJECT:  BECP506.1  BECP506.2  BECP506.4  BECP506.5  BRANCH:	Analyze various amplifiers using Simulate memories using simulacquire skills of team work, team wor	rig simulation tools.  Idation tools .  Chnical communication at ECE 7B. 1 eCh 51H  YEAR:  ON SOFTWARE LAB  COURSE OUTCOM  Gof the several types of sim mes, assess system behavior to solve real-world engineer rimental results or theoret chnical communication at the communication at the communication at the course of the co	and effective report v  3RD  ATEMEN  3RD  ATEMEN  ulation methods utilizer, and model electrical ring problems encount ical predictions.	SESSION: SEMESTER: SUBJECT CODE:  Writing. ESSION:2022-2 SEMESTER:5th SUBJECT CODE:  ed in electrical Engineerin circuits by using Simular tered in electrical Systems writing. SESSION:2022-23	2022-23 V BECP-503 BECP-503 2022-23 BECP-506 g, ion lab.		

		<b>COURSE OUTCO</b>	OMES (CO)			
CO#			TATEMENT			
BECP705.1 BECP705.2	Implement their understanding of theoretical Concepts on practical setups.    Conduct virtual experiments, which include assembling apparatus, gathering information, and interpreting finding					
BECP705.3	Navigate the difficulties and und	certainties that come	with conducting exp	eriments	3.	erpretting initiality
BECP705.4	Virtual labs provide opportunition Acquire skills of team work, tec					
BECP705.5	Acquire skills of team work, tec	nnicai communicatio	n and effective repor	t writing.		
BRANCH:		ECE /B.Tech II			SESSION:	2022-23
COURSE:	B.TECH- ECE	YEAR:	<u>II</u>		SEMESTER:	IV
SUBJECT:	Analog Co	ommunication Lab		SUB	JECT CODE:	BECP-403
		COURSE OUTCO	OMES (CO)			
CO#			TATEMENT			
BECP403.1	Apply the fundamentals to explain Analyze the concepts, write and			nodulati	on	
BECP403.3	Examine FM and FM-Demodulat			ilouulati	OII .	
BECP403.4	Implement the AM and FM funct					
BRANCH:	Design the simulation environm	ents in PAM, PWM, P ECE/B.Tech III	PM and verification of	of circuit	SESSION:	2022-23
COURSE:	B.TECH- ECE	YEAR:	111		SEMESTER:	VI
SUBJECT:		d Wave Propagation		SUB	ECT CODE:	BEC1-602
		COURSE OUTCO				
CO#			TATEMENT			
BEC   602.2	Apply the knowledge on potenti Determine different antenna par		a.			
BEC1002.2	Analyze types of Antenna used		eld.			
BEC 1602.4	Explain the concept of Aperture					
BEC   602.5	Evaluate the radio wave propag	ation.				
BRANCH:		ECE /B.Tech III			SESSION:	2022-23
COURSE:	B.TECH- ECE	YEAR:	III		SEMESTER:	VI
SUBJECT:	Antenna And	Wave Propagation	lab	SUB	JECT CODE:	BECP- 602
SUBJECT:		COURSE OUT CO	DMES (CO)			
	Antenna And Apply the antenna knowledge to	COURSE OUT CO	DMES (CO)			
BECP602.1		O write a program to p	JMES (CU) TATEMENT Note the radiation patt	ern of D	ipole Antenna in	Matlab.
CO#	Apply the antenna knowledge to Apply the antenna knowledge t	o write a program to p	DINES (CO) TATEMENT  blot the radiation pattern	ern of D	ipole Antenna in	Matlab.
BECP602.1	Apply the antenna knowledge to Apply the antenna knowledge to	o write a program to p	DIVIES (CO) TATEMENT  blot the radiation pattern  blot radiation pattern	ern of D of Mond	ipole Antenna in opole antenna in antenna in Mat	Matlab. n Matlab.
BECP602.1 BECP602.2 BECP602.3	Apply the antenna knowledge to Apply the antenna knowledge t	o write a program to p	DIVIES (CO) TATEMENT  blot the radiation pattern  blot radiation pattern	ern of D of Mond	ipole Antenna in opole antenna in antenna in Mat	Matlab. n Matlab.
BECP602.1 BECP602.2	Apply the antenna knowledge to Apply the antenna knowledge to	o write a program to p	DIVIES (CO) TATEMENT  blot the radiation pattern  blot radiation pattern	ern of D of Mond	ipole Antenna in opole antenna in antenna in Mat	Matlab. n Matlab.
BECP602.1 BECP602.2 BECP602.3	Apply the antenna knowledge to Apply the antenna knowledge to	o write a program to powrite a program to	DIVIES (CU) TATEMENT Stort the radiation pattern Stort radiation pattern Stort radiation pattern plot radiation pattern	ern of D of Mond of Loop of Lines	ipole Antenna in opole antenna in antenna in Mat ar array antenna ular array antenn	Matiab.  n Matiab.  in Matiab.  in Matiab.
BECP602.1 BECP602.2 BECP602.3 BECP602.4	Apply the antenna knowledge to	o write a program to powrite a program to	DIVIES (CU) TATEMENT Stort the radiation pattern Stort radiation pattern Stort radiation pattern plot radiation pattern	ern of D of Mond of Loop of Lines	ipole Antenna in opole antenna in antenna in Mat ar array antenna	Matlab.  n Matlab. lab.  in Matlab.
BECP602.1 BECP602.2 BECP602.3 BECP602.4 BECP602.5	Apply the antenna knowledge to	o write a program to powrite a program to powrite a program to powrite a program to powrite a Program to o write a Program to	DIVIES (CU) TATEMENT Stort the radiation pattern Stort radiation pattern Stort radiation pattern plot radiation pattern	ern of D of Mond of Loop of Lines	ipole Antenna in opole antenna in antenna in Mat ar array antenna ular array antenn	Matiab.  n Matiab.  in Matiab.  in Matiab.
BECP602.1 BECP602.2 BECP602.3 BECP602.4 BECP602.5 BRANCH:	Apply the antenna knowledge to	o write a program to powrite a	plot radiation pattern	of Mone	ipole Antenna in oppole antenna in Matararray antenna ular array antenna	Matlab.  In Matlab.  In Matlab.  a in Matlab.  2022-23
BECP602.1 BECP602.2 BECP602.3 BECP602.4 BECP602.5 BRANCH: COURSE:	Apply the antenna knowledge to B.TECH- ECE Telecommunication	o write a program to powrite a	plot radiation pattern	of Mone	ipole Antenna in opole antenna in Matiar array antenna ilar array antenna ilar array antenna SESSION:	Matlab.  In Matlab.  In Matlab.  In Matlab.  2022-23  VIII
BECP602.1 BECP602.2 BECP602.3 BECP602.4 BECP602.5 BRANCH: COURSE:	Apply the antenna knowledge to B.TECH- ECE Telecommunication	o write a program to powrite a	plot radiation pattern	of Mone	ipole Antenna in opole antenna in Matiar array antenna ilar array antenna ilar array antenna SESSION:	Matlab.  In Matlab.  In Matlab.  In Matlab.  2022-23  VIII
BECP602.1 BECP602.2 BECP602.3 BECP602.4 BECP602.5 BRANCH: COURSE: SUBJECT:	Apply the antenna knowledge to B.TECH- ECE Telecommunication	o write a program to powrite a Program to ECE /B.Tech IV  YEAR:  on And Switching N  COURSE OUTCO	plot radiation pattern IV letwork DMES (CO)	of Linea of Circu SUB	ipole Antenna in oppole antenna in Matararray antenna ilar array antenna session: SEMESTER: JECT CODE:	Matlab.  In Matlab.  In Matlab.  In Matlab.  2022-23  VIII
BECP602.1 BECP602.2 BECP602.3 BECP602.4 BECP602.5 BRANCH: COURSE: SUBJECT:	Apply the antenna knowledge to B.TECH- ECE Telecommunication	o write a program to powrite a	plot radiation pattern IV letwork DMES (CO)	of Linea of Circu SUB	ipole Antenna in oppole antenna in Matararray antenna ilar array antenna session: SEMESTER: JECT CODE:	Matlab.  In Matlab.  In Matlab.  In Matlab.  2022-23  VIII
BECP602.1 BECP602.2 BECP602.3 BECP602.4 BECP602.5 BRANCH: COURSE: SUBJECT: CO # BECT803.1	Apply the antenna knowledge to B.TECH- ECE Telecommunication	o write a program to powrite a	plot radiation pattern IV letwork DMES (CO)	of Linea of Circu SUB	ipole Antenna in oppole antenna in Matararray antenna ilar array antenna session: SEMESTER: JECT CODE:	Matlab.  In Matlab.  In Matlab.  In Matlab.  2022-23  VIII
BECP602.1  BECP602.2  BECP602.3  BECP602.4  BECP602.5  BRANCH:  COURSE:  SUBJECT:  CO #  BECT803.1	Apply the antenna knowledge to B.TECH- ECE  Telecommunication  Analyze Switching, Signaling and Determine the switching Function	o write a program to powrite a	plot radiation pattern IV letwork DMES (CO) TATEMENT ext oftelecommunicat	of Linea of Circu SUB	ipole Antenna in oppole antenna in Matararray antenna ilar array antenna session: SEMESTER: JECT CODE:	Matlab.  In Matlab.  In Matlab.  In Matlab.  2022-23  VIII
BECP602.1  BECP602.2  BECP602.3  BECP602.4  BECP602.5  BRANCH:  COURSE:  SUBJECT:  CO #  BECT803.1  BECT803.2  BECT803.3	Apply the antenna knowledge to B.TECH- ECE  Telecommunication  Analyze Switching, Signaling and Determine the switching Function  Analyze signaling, packet switching.	o write a program to powrite a	plot radiation pattern IV letwork DMES (CO) TATEMENT ext oftelecommunicat	of Linea of Circu SUB	ipole Antenna in oppole antenna in Matararray antenna ilar array antenna session: SEMESTER: JECT CODE:	Matlab.  In Matlab.  In Matlab.  In Matlab.  2022-23  VIII
BECP602.1  BECP602.2  BECP602.3  BECP602.4  BECP602.5  BRANCH:  COURSE:  SUBJECT:  CO #  BECT803.1  BECT803.2  BECT803.3  BECT803.4	Apply the antenna knowledge to B.TECH- ECE  Telecommunication  Analyze Switching, Signaling and Analyze signaling, packet switch Design and analyze multistage	o write a program to powrite a	plot radiation pattern IV letwork DMES (CO) TATEMENT ext oftelecommunicat	of Linea of Circu SUB	ipole Antenna in oppole antenna in Matararray antenna ilar array antenna session: SEMESTER: JECT CODE:	Matlab.  In Matlab.  In Matlab.  In Matlab.  2022-23  VIII
BECP602.1  BECP602.2  BECP602.3  BECP602.4  BECP602.5  BRANCH:  COURSE:  SUBJECT:  CO #  BECT803.1  BECT803.2  BECT803.3  BECT803.4  BECT803.5	Apply the antenna knowledge to B.TECH- ECE  Telecommunication  Analyze Switching, Signaling and Analyze signaling, packet switch Design and analyze multistage	o write a program to powrite a	plot radiation pattern IV letwork DMES (CO) TATEMENT ext oftelecommunicat	of Linea of Circu SUB	ipole Antenna in oppole antenna in Matararray antenna in Matararray antenna ilar array antenna SESSION: SEMESTER: JECT CODE:	Matlab.  In Matlab.  In Matlab.  a in Matlab.  2022-23  VIII  BECT- 803©

	COURSE OUTCOMES (CO)				
CO#	CO STATEMENT				
BEC1701.1	Analyze different wireless communications and cellular system scheme.				
BECT701.2 BECT701.3	Demonstrate the various multiple access scheme like CDMA TDMA FDMA (Apply the formulation and properties for procedure to measure Handoffs, S		troffic rotos		
BEC1701.3	Classify the equalizer and diversity techniques.	ectoring,swapping and	traffic rates.		
BECT701.5	Point out the existing and recent technologies(4g,5g).				
BRANCH:	EEE /B.Tech II	SESSION:	2022-23		
COURSE:	B.TECH YEAR: IV	SEMESTER:	VIII		
SUBJECT:	WIRELESS COMMUNICATION LAB	SUBJECT CODE:	BECP-802		
	COURSE OUTCOMES (CO)				
CO#	CO STATEMENT				
BECP701.1	dentify the fundamental concept of antenna and describe the various para	meters related to anten	na		
BECP701.2 BECP701.3	Describe the recent developments of antenna in fields of wireless technolo Analyze the characteristics of Gunn diode and the output power obtained.	gies			
BECP701.3	Sketch the characteristics of simple microwave circuits like couplers, power	er dividers and hybrid r	ina.		
BECP701.5	Analyze the square wave modulation of Microwave signal using PIN diode		9.		
DDANCII.	FCF /D Teeb II	CECCION.	2022.22		
BRANCH:	ECE /B.Tech II B.TECH YEAR: II	SESSION: SEMESTER:	2022-23 IV		
SUBJECT:	ENERGY & ENVIRONMENT ENGINEERING	SUBJECT CODE:	BAST-401		
OODOLO1.	COURSE OUTCOMES (CO)	OODOLOT OODL:	BA01-401		
CO # BAST-401.1	CO STATEMENT The objective of this paper is to introduce the fundamental processes, prin-	oinles and attributes o	f different coop		
BAST-401.1	The applicability of conceptual models in understanding of complex biolog				
BAST-401.3	Overview of current energy scenario and energy resources of the world		,		
BAST-401.4	Classify the relationships between energy, risk, societal safety and sustain	able development			
BAST-401.5	Analyze energy markets, resource economics and innovation.				
BRANCH:	ECE/B.Tech II	SESSION:	2022-23		
COURSE:	B.TECH YEAR: III	SEMESTER:	VI		
SUBJECT:	CELLULAR & MOBILE COMMUNICATION	SUBJECT CODE:	BECT-604(B)		
	COURSE OUTCOMES (CO)				
CO#	CO STATEMENT				
BECT-604B.1	Analyze different wireless communications and cellular system scheme.				
BECT-604B.2	Discuss the various multiple access scheme like CDMA TDMA FDMA etc.				
BECT-604B.3	Analyze the formulation and properties for procedure to measure Handoffs	Analyze the formulation and properties for procedure to measure Handoffs, Sectoring, swapping and traffic rates.			
	Classify the equalizer and diversity techniques.				
		,	id traffic rates.		
	Classify the equalizer and diversity techniques. Compare the existing and recent technologies(4g,5g).	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	iu tranic rates.		
			2022-23		
BRANCH: COURSE:	Compare the existing and recent technologies(4g,5g).	SESSION: SEMESTER:	2022-23 IV		
BRANCH:	Compare the existing and recent technologies(4g,5g).  ECE /B.Tech  B.TECH-ECE YEAR: II  Analog Circuits	SESSION:	2022-23		
BRANCH: COURSE:	Compare the existing and recent technologies(4g,5g).  ECE /B.Tech  B.TECH- ECE YEAR: II	SESSION: SEMESTER:	2022-23 IV		
BRANCH: COURSE: SUBJECT:	Compare the existing and recent technologies(4g,5g).  ECE /B.Tech  B.TECH-ECE YEAR: II  Analog Circuits  COURSE OUTCOMES (CO)	SESSION: SEMESTER:	2022-23 IV		
BRANCH: COURSE: SUBJECT:	ECE /B.Tech B.TECH-ECE YEAR: II Analog Circuits COURSE OUTCOMES (CO)	SESSION: SEMESTER:	2022-23 IV		
BRANCH: COURSE: SUBJECT:  CO # BECT 405.1	ECE /B.Tech  B.TECH-ECE YEAR: II  Analog Circuits  COURSE OUTCOMES (CO)  CO STATEMENT  Illustrate the concept of operational amplifier	SESSION: SEMESTER:	2022-23 IV		
BRANCH: COURSE: SUBJECT:  CO # BECT 405.1 BECT 405.2	ECE /B.Tech  B.TECH-ECE YEAR: II  Analog Circuits  COURSE OUTCOMES (CO)  CO STATEMENT  Illustrate the concept of operational amplifier  Discuss different types of power amplifier	SESSION: SEMESTER:	2022-23 IV		
BRANCH: COURSE: SUBJECT:	ECE /B.Tech  B.TECH-ECE YEAR: II  Analog Circuits  COURSE OUTCOMES (CO)  CO STATEMENT  Illustrate the concept of operational amplifier  Discuss different types of power amplifier  Understand Oscillators, Current Mirrors, and Multivibrators.	SESSION: SEMESTER:	2022-23 IV		
BRANCH: COURSE: SUBJECT:  CO # BECT 405.1 BECT 405.2 BECT 405.3	ECE /B.Tech  B.TECH-ECE YEAR: II  Analog Circuits  COURSE OUTCOMES (CO)  CO STATEMENT  Illustrate the concept of operational amplifier  Discuss different types of power amplifier	SESSION: SEMESTER: SUBJECT CODE:	2022-23 IV BECT-405		
BRANCH: COURSE: SUBJECT:  CO # BECT 405.1 BECT 405.2 BECT 405.3	ECE /B.Tech  B.TECH-ECE YEAR: II  Analog Circuits  COURSE OUTCOMES (CO)  CO STATEMENT  Illustrate the concept of operational amplifier  Discuss different types of power amplifier  Understand Oscillators, Current Mirrors, and Multivibrators.  Examine the concept of diode, BJT and FET and their applications.	SESSION: SEMESTER: SUBJECT CODE:	2022-23 IV BECT-405		
BRANCH: COURSE: SUBJECT:  CO # BECT 405.1 BECT 405.2 BECT 405.3 BECT 405.4	ECE /B.Tech  B.TECH-ECE YEAR: II  Analog Circuits  COURSE OUTCOMES (CO)  CO STATEMENT  Illustrate the concept of operational amplifier  Discuss different types of power amplifier  Understand Oscillators, Current Mirrors, and Multivibrators.  Examine the concept of diode, BJT and FET and their applications.  Analyze analog to digital converters, digital to analog converters, active filt	SESSION: SEMESTER: SUBJECT CODE:	2022-23 IV BECT-405		
BRANCH: COURSE: SUBJECT:  CO # BECT 405.1 BECT 405.2 BECT 405.3 BECT 405.4 BECT 405.5	ECE /B.Tech  B.TECH-ECE YEAR: II  Analog Circuits  COURSE OUTCOMES (CO)  CO STATEMENT  Illustrate the concept of operational amplifier  Discuss different types of power amplifier  Understand Oscillators, Current Mirrors, and Multivibrators.  Examine the concept of diode, BJT and FET and their applications.  Analyze analog to digital converters, digital to analog converters, active filt operational amplifier.	SESSION: SEMESTER: SUBJECT CODE: ers and Schmitt trigger	2022-23 IV BECT-405		
BRANCH: COURSE: SUBJECT:  CO # BECT 405.1 BECT 405.2 BECT 405.3 BECT 405.4 BECT 405.5 BRANCH:	ECE /B.Tech B.TECH-ECE YEAR: II Analog Circuits COURSE OUTCOMES (CO)  CO STATEMENT  Illustrate the concept of operational amplifier Discuss different types of power amplifier Understand Oscillators, Current Mirrors, and Multivibrators.  Examine the concept of diode, BJT and FET and their applications.  Analyze analog to digital converters, digital to analog converters, active filt operational amplifier.  ECE /B.Tech	SESSION: SEMESTER: SUBJECT CODE: ers and Schmitt trigger SESSION:	2022-23 IV BECT-405		
BRANCH: COURSE: SUBJECT: BECT 405.1 BECT 405.2 BECT 405.4 BECT 405.5 BRANCH: COURSE:	ECE /B.Tech  B.TECH-ECE YEAR: II  Analog Circuits  COURSE OUTCOMES (CO)  CO STATEMENT  Illustrate the concept of operational amplifier  Discuss different types of power amplifier  Understand Oscillators, Current Mirrors, and Multivibrators.  Examine the concept of diode, BJT and FET and their applications.  Analyze analog to digital converters, digital to analog converters, active filt operational amplifier.  ECE /B.Tech  B.TECH-ECE YEAR: II  Analog Circuits Lab	SESSION: SEMESTER: SUBJECT CODE:  ers and Schmitt trigger  SESSION: SEMESTER:	2022-23 IV BECT-405		
BRANCH: COURSE: SUBJECT: BECT 405.1 BECT 405.2 BECT 405.4 BECT 405.5 BRANCH: COURSE:	ECE /B.Tech  B.TECH-ECE YEAR: II  Analog Circuits  COURSE OUTCOMES (CO)  CO STATEMENT  Illustrate the concept of operational amplifier  Discuss different types of power amplifier  Understand Oscillators, Current Mirrors, and Multivibrators.  Examine the concept of diode, BJT and FET and their applications.  Analyze analog to digital converters, digital to analog converters, active filt operational amplifier.  ECE /B.Tech  B.TECH-ECE YEAR: II	SESSION: SEMESTER: SUBJECT CODE:  ers and Schmitt trigger  SESSION: SEMESTER:	2022-23 IV BECT-405		
BRANCH: COURSE: SUBJECT:  CO # BECT 405.1 BECT 405.3 BECT 405.4 BECT 405.5 BRANCH: COURSE: SUBJECT:	ECE /B.Tech  B.TECH-ECE YEAR: II  Analog Circuits  COURSE OUTCOMES (CO)  CO STATEMENT  Illustrate the concept of operational amplifier  Discuss different types of power amplifier  Understand Oscillators, Current Mirrors, and Multivibrators.  Examine the concept of diode, BJT and FET and their applications.  Analyze analog to digital converters, digital to analog converters, active filt operational amplifier.  ECE /B.Tech  B.TECH-ECE YEAR: II  Analog Circuits Lab  COURSE OUTCOMES (CO)  CO STATEMENT  Describe push pull amplifier & different configurations of feedback as	SESSION: SEMESTER: SUBJECT CODE:  ers and Schmitt trigger  SESSION: SEMESTER: SUBJECT CODE:	2022-23 IV BECT-405		
BRANCH: COURSE: SUBJECT: BECT 405.1 BECT 405.4 BECT 405.5 BRANCH: COURSE: SUBJECT: CO# BECP 405.1 BECP 405.1	ECE /B.Tech  B.TECH-ECE YEAR: II  Analog Circuits  COURSE OUTCOMES (CO)  CO STATEMENT  Illustrate the concept of operational amplifier  Discuss different types of power amplifier  Understand Oscillators, Current Mirrors, and Multivibrators.  Examine the concept of diode, BJT and FET and their applications.  Analyze analog to digital converters, digital to analog converters, active filt operational amplifier.  ECE /B.Tech  B.TECH-ECE YEAR: II  Analog Circuits Lab  COURSE OUTCOMES (CO)  CO STATEMENT  Describe push pull amplifier & different configurations of feedback at Illustrate series and shunt voltage regulator and calculate line regula	SESSION: SEMESTER: SUBJECT CODE:  ers and Schmitt trigger  SESSION: SEMESTER: SUBJECT CODE:  mplifier. tion & ripple factor.	2022-23 IV BECT-405		
BRANCH: COURSE: SUBJECT:  BECT 405.1 BECT 405.2 BECT 405.4 BECT 405.5 BRANCH: COURSE: SUBJECT:	ECE /B.Tech  B.TECH-ECE YEAR: II  Analog Circuits  COURSE OUTCOMES (CO)  CO STATEMENT  Illustrate the concept of operational amplifier  Discuss different types of power amplifier  Understand Oscillators, Current Mirrors, and Multivibrators.  Examine the concept of diode, BJT and FET and their applications.  Analyze analog to digital converters, digital to analog converters, active filt operational amplifier.  ECE /B.Tech  B.TECH-ECE YEAR: II  Analog Circuits Lab  COURSE OUTCOMES (CO)  CO STATEMENT  Describe push pull amplifier & different configurations of feedback as	SESSION: SEMESTER: SUBJECT CODE:  ers and Schmitt trigger  SESSION: SEMESTER: SUBJECT CODE:  mplifier. tion & ripple factor.	2022-23 IV BECT-405		

BECP 405.4	Calculate frequency of differen	nt oscillator							
BECT 405.5	Analyze frequency response o	f BJT & FET amplifi	ers						
BRANCH:		EEE /B.Tech			SESSION:	2022-23			
COURSE:	B.TECH- EEE	YEAR:	III		SEMESTER:	VI			
SUBJECT:		gnal Processing		SUB.	JECT CODE:	BECT-603			
	COURSE OUTCOMES (CO)								
CO#		CO ST	ATEMENT						
BECT 603.1	Understand the concept of sig			cy analy	/sis				
BECT 603.2	Explain the concept of multi ra								
BECT 603.3	Apply FFT Algorithm to compu			<del></del>					
BECT 603.4	Illustrate the effect of finite reg								
BECT 603.5	Analyze the frequency character	istics of IIR and FIR	digital filters for give	en requii	rements				
BRANCH:		EEE /B.Tech			SESSION:	2022-23			
COURSE:	B.TECH- EEE	YEAR:	III		SEMESTER:	VI			
SUBJECT:		al Processing Lab		SUB.	JECT CODE:	BECP-603			
	Č	COURSE OUTCO							
CO#			ATEMENT						
BECP 603.1	Understand the mathematical	operation on discre	te signals.						
BECP 603.2	Sketch the magnitude and pha	se response of DFT	Inverse DFT and	FFT of	descrete time s	ignals			
BECP 603.3	Calculate linear and Circular convolution of discrete sequences								
BECP 603.4	Illustrate the effect of finite reg								
BECP 603.5	Analyze the frequency charact	eristics of IIR and F	IR digital filters for	r given	requirements				
BRANCH:		ECE /B.Tech II			SESSION:	2022-23			
COURSE:	B.TECH- ECE	YEAR:	II .		SEMESTER:	IV			
SUBJECT:		ROL SYSTEM		SUB	JECT CODE:	BEET 404			
		COURSE OUTCO							
CO#			ATEMENT						
BEET 404.1	Categorize different types of syst	em and identify a set	of algebraic equati	ons to re	epresent and mo	del a complicat			
BEET 404.2	Apply standard test signals to a s								
BEET 404.3	Examine the system behaviour us								
BEET 404.4	Analyze the stability of various lin								
BEET 404.5	Identify the needs of different typ	es of controllers and	compensator to as	certain t	the required dyna	amic response f			
			<u></u>						
COURSE:	B.TECH- ECE	YEAR:	II		SEMESTER:	IV			
SUBJECT:		L SYSTEM LAB	MEG (GG)	SUB	JECT CODE:	BEEP 404			
66.4		COURSE OUTCO							
CO#	4	COSI	ATEMENT						
	Apply the conversion of transfer	functions to check th	e performance para	ameters	in time domain fo	or various			
BEEP 404.1	inputs via MATLAB software.								
DEED 404.5	Total the confirmation			DO 6 1 1					
BEEP 404.2	Test the performance characteristics and working of Magnetic amplifier, DC & AC servo motors and synchros.								
BEEP 404.3	Analyze the system's stability wit	h different methods (	of time & frequency	domain	using MATLAR	software			
DEE: 404.0	, maryzo the cyclem's stability wit	amorone methods t	. and a nequency	Jonaili	acing mareas	JOI. 11101.			
	Design controllers for continuous	s process control and	tuning of 'tempera	ature, lev	el and pressure	based' control			
BEEP 404.4	systems.			,	•				
	<del> </del>								