DON BOSCO INSTITUTE OF TECHONOLGY, KURLA, MUMBAI DEPARTMENT OF ELECTRONICS & TELECOMMUNICATION Course Outcome for AY 2019-20 Even semester

Course Name:	Maths IV		ns IV				
Course Code	ECC401		401				
Faculty Name:	Dr. Revathy , Pallavi						
Year	2	Sem	IV				
CO Number				Course Outcome			
ECC401.1				rvalues and Eigen vectors for a given square matrix (ii) Define Metric spaces (iii) Define Karl pearman's rank correlation coefficient			
ECC401.2	a given dis (v) Obtain continuous	Students will be able to (i) Infer properties of Eigen values and Eigen vectors (ii) Show if a given set is a vector space or not (iii) Interpret is a given distance / set is a metric / metric space (iv) Calculate conditional Probabilities using Bayes' theorem (v) Obtain pdf and cdf of discrete and continuous random variables (including special discrete – Binomial and Poisson and special continuous – normal) (vi) Calculate various probabilities of random variables following Binomial Poisson and Normal distributions (vii) Karl-Pearson's Coefficient of Correlation and Spearman's Rank Correlation and regression lines					
ECC401.3	normal and Evaluate ir (vii) Identify probabilities using corre	lents will be able to (i) Construct diagonal matrices using the concept of similarity (ii) Build functions of square matrices (iii) Obtain nal and orthogonal forms of Quadratic forms (iv) Obtain extremals of a given integral using the theory of Calculus of variations (v) uate integrals using the different Cauchy's theorems (Integral theorem, Residue theorem) (vi) Obtain Taylor's and Laurent's series identify orthogonal vectors and obtain orthonormal basis using Gram-Schmidt process (viii) Use Bayes' theorem to obtain conditionabilities (x) Obtain MGF and hence obtain the mean and variance (up to first 4 moments) of a random variableObtain probabilitie g correct interpretation of Binomial distribution, Poisson and normal approximations to binomial distribution and also Binomial oximation to normal distribution					
ECC401.4	Students will be able to (i) Obtain extremals of a given integral under some constraints using the theory of Calculus of variations (Isoperimetric problems) (ii) Obtain probabilities and z-values for normal distributions						

Course Name:	Electronic devices and Circuits - II		
Course Code	ECC402		
Faculty Name:	Dr. Mande		
Year	2	Sem	IV

CO Number	Course Outcome
ECC402.1	Students will be able to describe the basic principle and classify various semiconductor devices like FET, Large signal amplifiers, feedback amplifiers and Oscillators.
ECC402.2	Students will be able to explain the operation and discuss various types of semiconductor devices with references to electronics circuits.
ECC402.3	Students will be able to derive the expressions for various performance measures of small signal and large signal amplifers and oscillators
ECC402.4	Students will be able to analyze and relate circuit parameters with performance parameters for single and multistage amplifier and oscillator circuits
ECC402.5	Students will be able to evaluate and select suitable parameters with performance parameters for single and multistage amplifier and oscillator circuits.
ECC402.6	Students will be able to design amplifier and oscillator circuit for given specification and application

Course Name:	Linear integrated Circuits				
Course Code	ECC403				
Faculty Name:	Poonam Chakraborty		hakraborty		
Year	2 Sem IV				
CO Number				Course Outcome	
ECC403.1	The student will be able to understand the fundamentals and areas of applications for the linear integrated circuits.				
ECC403.2	The students will be able to identify the concepts to a particular circuit to build a given application in linear integrated circuits				
ECC403.3	The student will be able to analyze important types of linear integrated circuits of day-to-day requirements.				
ECC403.4	The student will be able to evaluate various parameters for any given linear integrated circuits				
ECC403.5	The students will be able to apply the concepts to a particular circuit to build a given application in linear integrated circuits				
ECC403.6	The students will be able to design a circuit for any particular applications in the area of linear integrated circuit.				

Course Name:	SS		
Course Code	ECC404		
Faculty Name:	Jithin Isaac		
Year	2	Sem	IV

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CO Number		Course Outcome							
ECC404.1	Students v	tudents will be able to learn the mathematical description and representation of continuous and discrete time signals and systems.							
ECC404.2	Students v	vill be able	e to interpret & clas	ssify signals & systems based on their different properties.					
ECC404.3		Students will be able to apply the Laplace transform and Z- transform to continuous-time and discrete-time signals and determine the response of LTI system using convolution.							
ECC404.4	Students v	Students will be able to Analyse the spectral characteristics of continuous-time periodic and aperiodic signals using Fourier analysis.							
ECC404.5		Students will be able to compare & evaluate the different signal processing algorithms being used for various signal processing applications.							
ECC404.6	Students v	vill be able	e to realize and des	sign recursive and non recursive systems in different forms.					

Course Name:	РСОМ		
Course Code	ECC405		
Faculty Name:		Ms. An	ijum K.
Year	2	Sem	IV

CO Number	Course Outcome				
ECC405.1	he students will be able to describe and assimilate information regarding the different types of analog and pulse modulation- emodulation communication techniques.				
ECC405.2	The students will be able to discuss and summarize different types of communication media and the modulation and demodulation techniques used.				
ECC405.3	The students will be able to apply their knowledge in obtaining the different performance parameters of a system.				
ECC405.4	The students will be able to analyze the fundamental communication systems and relate the effect each block has on the performance of the system				
ECC405.5	The students will be able to evaluate & compare the different types of analog & pulse communication systems and select suitable systems to build their applications.				
ECC405.6	The students will design an application oriented mini-project.				

Course Name:	Electronic devices and Circuits - II Laboratory		
Course Code	ECL401		
Faculty Name:	Aparna	Telgote a	and Gejo George
Year	2	Sem	IV

CO Number	Course Outcome
ECL401.1	Students will be able to describe the basic principle and classify various semiconductor devices like FET, Large signal amplifiers, feedback amplifiers and Oscillators.
ECL401.2	Students will be able to explain the operation and discuss various types of semiconductor devices with references to electronics circuits.
ECL401.3	Students will be able to derive the expressions for various performance measures of small signal and large signal amplifers and oscillators
ECL401.4	Students will be able to analyze and relate circuit parameters with performance parameters for single and multistage amplifier and oscillator circuits
ECL401.5	Students will be able to evaluate and select suitable parameters with performance parameters for single and multistage amplifier and oscillator circuits.
ECL401.6	Students will be able to design amplifier and oscillator circuit for given specification and application

	Principles of Communication Engineering Laboratory			
Course Code	ECL404			
Faculty Name:	Ms. Anjum K.			
Year	2	Sem	IV	

CO Number	Course Outcome				
ECL404.1	The students will be able to experimentally perform and describe the different types of analog and pulse modulation techniques and understand the difference between each.				
ECL404.2	The students will be able to experimentally find the different physical parameters of the various modulated signals.				
ECI 404.3	The students will be able to experimentally analyze the effect each parameter has on the various types of pulse and analog modulation.				
ECL404.4	Students will be able to design and implement miniprojects based on different modulation and demodulation techniques and build their applications.				

Course Name:	LIC LAB		LAB				
Course Code	ECL402						
Faculty Name:	Poonar	n C, Nan	nita A, Yogesh G				
Year	2	Sem	IV				
CO Number				Course Outcome			
ECL402.1	The studer	The students will understand the working of various IC, timers and linear integrated circuits					
ECL402.2	The studer	The students will be able to identify the particular circuit necessary to perform a particular operation					
ECL402.3	The studer	he students will be able to analyze the working of differerent types of circuits					
ECL402.4	The students will be able to evaluate various parameters of the given circuit.						
ECL402.5	The studer	The students will be able to apply the concepts of the numerous ICs they learn in practical circuits					
ECL402.6	The studer	The students will be able to design the circuit for a given application					

Course Name:	MICROCONTROLLER AND APPLICATION		
Course Code	ECC601		
Faculty Name:	YOGESH G		
Year	3 Sem VI		
CO Number			

Year	3	Sem	VI					
CO Number		Course Outcome						
ECC601.1	Student wi	udent will know basic features, architecture and pin configuration of 8051 and ARM7 microcontroller.						
ECC601.2		udent will be able to demonstrate understanding of memory organization, Instruction set, addressing modes, I/O ports, counter/ timer, terrupts, UART of 8051 and ARM7 microcontroller.						
ECC601.3	Student wi	Student will be able to apply knowledge of instruction set to write assembly language program for given logic.						
ECC601.4	Students w	Students will analyse input/output interface and demonstrate knowledge via simulation.						
ECC601.5		Student will be able to interface and program peripheral devices LED, LCD, and seven segment displays, Keyboard, ADC and DAC (0808/09), Stepper motor and relay, IR sensor with 8051 and ARM7 microcontroller.						
ECC601.6	Student wi	Student will be able to design microcontroller based system for various application						

Course Name:	CCN			
Course Code	ECC602			
Faculty Name:		Namita	Agarwal	
Year	3	Sem	VI	

CO Number	Course Outcome
ECC602.1	Students will be able to define and describe the basic concepts of computer networks
ECC602.2	Students will be able to discuss and explain the services provided, protocols used along with the design issues for each of the layers of computer networks.
ECC602.3	Students will be able to apply various error detection and correction methods along with routing algorithms .
ECC602.4	Students will be able to compare various protocols, multiple access techniques and routing algorithms used in computer networks.
ECC602.5	Students will be able to evaluate the performance of a computer network.
ECC602.6	Students will be able to formulate, design and apply subnet masks and addresses to fulfill networking requirements

Course Name:	AWP		
Course Code	ECC603		
Faculty Name:	Dr. Ashwini K.		
Year	3	VI	

CO Number	Course Outcome
ECC603.1	Student will be able to define and explain Maxwell's equations, various antenna parameters , different propagation effects.
ECC603.2	Student will be able to use Maxwell's equations for derivations of various antennas. They will be able to solve problems on antenna fundamentals
ECC603.3	Student will be able to apply concepts to compare various types of antennas based on the requirements /applications. They will be able to evaluate polarisation, impedance matching effects in antennas.
ECC603.4	Student will be able to analyse the radiation pattern, beamwidth, directivity, null directions for antenna array, yagi and log periodic antenna
ECC603.5	Student will be able to evaluate the given specifications to arrive at the appropriate design/circuit considerations of antennas
ECC603.6	Student will be able to suggest an appropriate design method of antenna system for the given specifications

Course Name:	Image Processing and Machine Vision (IPMV)					
Course Code		ECC	604			
Faculty Name:	Dr. S	atishkun	nar S. Chavan			
Year	3 Sem VI					
CO Number				Course Outcome		
ECC604.1	Students w	Students will be able to know basics of image processing with fundamental processes.				
ECC604.2	Students will be able to understand fundamental concepts of formation and sampling of images.					
ECC604.3	Students will be able to improve the quality of an image in spatial domain as well as in frequency domain.					
ECC604.4	Students will be able to interpret and analyze images in spatial and frequency domain.					
ECC604.5	Students will be able to choose appropriate method to reconstruct original image from degraded image.					
ECC604.6	Students will be able to design methods for processing images for human interpretation or further processing.					

Course Name:	DIGITAL VLSI ELECTIVE		I ELECTIVE			
Course Code	ECCDLO 6021		O 6021			
Faculty Name:	Dr. S. Mande					
Year	3 Sem VI					
CO Number				Course Outcome		
ECCDLO 6021.1	Students w	ill know d	escribe the fundame	ental understanding of MOSFET		
	Students w	ill he able	to evolain and disc	cuss various design styles , memory and storage circuits, data path designs and system level		
ECCDLO 6021.2		design issues such as protection, clocking, and routing.				
	a congresses	ge				
ECCDLO 6021.3	Students will be able to apply the concept and derive expressions for various performance measure of digital circuits					
	Students will be able to analyze the various factors affecting performance measures of digital circuits such as Noise Margins, Propagation					
ECCDLO 6021.4	delays, power dissipation, and area					
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ECCDLO 6021.5	Students will be able to compare and select appropriate digital circuit with suitable configuration for given applications					
ECCDLO 6021.6	Students will be able to design various building blocks of VLSI circuits to satisfy given specifications					
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Course Name:

Course Code

RADAR ENGG ECCDLO6022

Faculty Name:	ASHWINI K		VINI K				
Year	3	Sem	VI				
CO Number		Course Outcome					
	Student will be able to explain the fundamental concept of RADAR. They will be explain the working principle the different types of Radar displays and their application in real time scenario. (PO1)						
ECCDLO 6022.2	Students w	ill be able	e demonstrate an ur	nderstanding of the factors affecting the radar performance using Radar Range Equation.			
	Students will be able apply concepts of working principles to differentiate between different types of RADARS. Also will be able to demonstrate an understanding of the importance of Matched Filter Receivers in Radars.						
ECCDLO 6022.4	Students will be able analyze cases to identify the suitable measurement methodologies to characterize and verify the performance of radar systems.						
ECCDLO 6022.5	Students w	Students will be able to evaluate design constraints for RADAR transmitters & receivers.					
ECCDLO 6022.6	Students will be able to design radar systems computationally and use modern tools to .						

Course Name:	DATABASE MANAGEMENT SYSTEM		
Course Code	ECCDLO 6023		
Faculty Name:	JITHIN ISAAC		
Year	3	Sem	VI
CO Number			

CO Number	Course Outcome
ECCDLO6023.1	Students will be able to understand, define and explain the fundamentals of database management systems.
ECCDLO6023.2	Students will be able to understand the concept of Relational Algebra, Views, Triggers & Transaction Management
ECCDLO6023.3	Students will be able to apply and formulate SQL queries to manage the database system.
ECCDLO6023.4	Students will be able to convert conceptual model to relational model and formulate relational algebra queries.
ECCDLO6023.5	Students will be able to analyze and design a relational database design using the concepts of normalizations.
ECCDLO6023.6	Students will be able to to design the conceptual model of database for any real life problem.

Course Name:	DATABAS	E MANA LABOR	GEMENT SYSTEM ATORY			
Course Code	ECLDLO 6023					
Faculty Name:	JITHIN ISAAC					
Year	3 Sem VI					

CO Number		Course Outcome
ECLDLO6023.1	Students will be able to learn, apply and	formulate SQL queries to create the database system using Data Definition Language
ECLDLO6023.2	Students will be able to learn, apply and	formulate SQL queries to manage the database system using Data Manipulation Language
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ECLDLO6023.3	Students will be able to Conceptualize a	and design a GUI Platform incorporating a database at its backend.
Course Name:	AUDIO PROCESSING	

Course Name:	AUDIO PROCESSING					
Course Code	ECCDLO 6024					
Faculty Name:	PRATIBHA D					
Year	3 Sem VI					

Year	3	Sem	VI					
CO Number	Course Outcome							
ECCDLO 6024.1	Students will be able to define the various terms related to signals and systems as required for audio processing, speech production, and speech processing and speech analysis.							
ECCDLO 6024.2	Students will be able to discuss the digital representation of speech waveforms, properties of speech signal, short time analysis in time and frequency domain and explain the various techniques used in speech processing, and their applications.							
ECCDLO 6024.3	Students v	vill be abl	e to compute the pitr	ch and formants of a speech signal using different digital signal processing methodologies.				
ECCDLO 6024.4	Students v	vill be abl	e to analyse the diffe	rent interpretation methods of the short time Fourier transform.				
ECCDLO 6024.5				pare the different techniques used for digital representation of speech waveforms, techniques used the techniques used in the design of specified vocoders.				
ECCDLO 6024.6				iagrams for specified vocoders and analysis methods and applications taking into consideration leasures required for processing of speech signals.				

Course Name:	AUDIO PROCESSING LAB					
Course Code	ECLDLO 6024					
Faculty Name:	PRATIBHA D					
Year	3 Sem VI					

CO Number		Course Outcome								
ECLDLO 6024.1										
202220 002.112	Students will	be able	to read and plot th	the speech signals using programming languages like Scilab/Matlab/R/Python. (Remembering)						
ECLDLO 6024.2	Students will	students will be able to understand program construct for speech processing. (Understanding)								
ECLDLO 6024.3		Students will be able to apply digital signal processing techniques to extract the features of the speech signals in time domain and requency domain. (Applying)								
ECLDLO 6024.4	Students will	Students will be able to analyze the features obtained from the speech signals. (Analyzing)								
ECLDLO 6024.5	Students will	Students will be able to choose appropriate techniques to extract the features from the speech signals. (Evaluating)								
ECLDLO 6024.6	Students will	be able	to work on a mini	ni project in the area of speech / audio processing. (Creating)						

Course Name:	MICROCONTROLLER & APPLICATION LAB						
Course Code	ECL601						
Faculty Name:	YOGESH G						
Year	3 Sem VI						

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CO Number		Course Outcome							
ECL601.1	Student wi	ll know ba	asic features, archi	tecture and pin configuration of 8051 and ARM7 microcontroller.					
ECL601.2			to demonstrate ur 8051 and ARM7 n	nderstanding of memory organization, Instruction set, addressing modes, I/O ports, counter/ timer,					
LCL001.2	пистирь,	OAITI OI	0031 and ARMIT II	increcontabilet.					
ECL601.3	Ctudent wi	ll bo oblo	to opply knowlodg	e of instruction set to write assembly language program for given logic.					
ECL601.3	Student wi	ii be abie	то арріу клюміецу	e of instruction set to write assembly language program for given logic.					
ECL601.4	Students v	vill analys	o input/output into	face and demonstrate knowledge via simulation					
ECL001.4	Students will analyse input/output interface and demonstrate knowledge via simulation.								
ECL601.5	Student will be able to interface and program peripheral devices LED, LCD, and seven segment displays, Keyboard, ADC and DAC (0808/09), Stepper motor and relay, IR sensor with 8051 and ARM7 microcontroller.								
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ECL601.6	Student wi	ll he ahle	to design microco	ntroller based system for various application					
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Course Name:	CCN LAB		LAB				
Course Code	ECL602						
Faculty Name:		Namita .	Agarwal				
Year	3	Sem	VI				
CO Number				Course Outcome			
ECL602.1	Students will be able to explain the various network devices and protocols used at each layer.						
ECL602.2	Students will be able to understand and perform various network commands on Linux.						
ECL602.3	Students will be able to apply error detection and correction techniques.						
ECL602.4	Students will be able to analyze the traffic flow and protocol frames						
ECL602.5	Students will be able to simulate and evaluate the performance of a computer network.						
ECL602.6	Students w	ill be able	e to design a compu	ter network as per specific need.			

Course Name:	AWP LAB					
Course Code	ECL603					
Faculty Name:	FREDA C, ASHWINI K					
Year	3 Sem VI					
CO Number						
	Students w	ill be able	e to explain and defi			

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CO Number		Course Outcome									
	Students w	ill be abl	e to explain and	define	e various antenna parameters and also explain propagation effects.						
ECL603.1		, , , , , , , , , , , , , , , , , , , ,									
		Students will have basic knowledge and skills related to Antenna system and it's testing methods, they will be able to measure various antenna parameters									
ECL603.2											
		Students will be able to apply their theoretical knowledge and demonstrate proficiency to operate various instruments like directional coupler, VNA and software like ANSYS HFSS									
ECL603.3											
		Student will be able to analyse radiation pattern and S11 parameters to compare antennas with respect to certain defined antenna parameters									
ECL603.4											
	Students w	ill be abl	e to investigate i	inorde	er to assess the need of adaptation for technological change in the field of antennas						
ECL603.5											
	Student w	ill be able	to evaluate give	en spe	ecifications to arrive at appropriate theoretical design of antennas and validate through simulation						
ECL603.6											

Course Name:	Image Processing and Machine Vision Laboratory (IPMV LAB)						
Course Code	ECL604						
Faculty Name:	DR SATISH C, Ms. Pratiba D.						
Year	3 Sem VI						

CO Number	Course Outcome
ECL604.1	Students will be able to understand programming constructs for image processing and machine vision.
ECL604.2	Students will be able to read, modify, display and create images.
ECL604.3	Students will be able to improve the subjective quality of images in spatial domain and frequency domain.
ECL604.4	Students will be able to analyze and interpret the images for machine vision.
ECL604.5	Students will be able to choose appropriate filter to remove the noise.
ECL604.6	Students will be able to design filters for image processing and machine vison.

Course Name:		RF D	esign			
Course Code		ECC801				
Faculty Name:		Ms. Fr	reda C.			
Year	4	Sem	VIII			
CO Number				Course Outcome		
ECC801.1	Student will be able to explain concepts related to design of RF filter, Amplifier, Frequency generators, mixers, Frequency synthesisers.					
ECC801.2		Student will be able to use stability, gain, noise circle equations,etc to solve problems on design of RF filter, Amplifier, Frequency generators, mixers, Frequency synthesisers				
ECC801.3	Student wi /application		to apply concepts t	o compare various types of microwave gain considerations based on the requirements		
ECC801.4	Student wi	ll be able	to analyse the perfo	ormance of amplifier,oscillators and Filters using Smith Chart and arrive at a suitable design.		
ECC801.5	Student wi	ll be able	to identify EMI in R	F circuits and study of various Electromagnetic Compatibility techniques.		
ECC801.6	Student wi	ll be able	to suggest an appro	opriate design method of system for the given specifications		

Course Name:		W	/N	
Course Code	ECC802			
Faculty Name:	Aparna M. Telgote			
Year	4	Sem	VIII	
CO Number				Course Outcome
ETC801.1			to understand char SM/CDMA technolog	acteristics of communication channel, radio access techniques and multi user detection and gies.
ETC801.2	Student wi	ll be able	to compare 2G, 3G	and 4G network.
	Students v	vill be abl	e to understand and	compare different emerging technologies like Bluetooth, zigbee, Wimax
ETC801.3				
	Students v	vill be able	e to give details of s	ensor network architecture, traffic related protocols , transmission technology etc

Students will be able to calculate capacity of cellular network of given area.

Students will be able to evaluate link budget for GSM, CDMA, WCDMA, HSDPA Technologies.

Course Name:	Sate	ellite Cor	nmunication
Course Code	ECCDLO8043		
Faculty Name:		Gejo (George
Year	4	Sem	VIII

ETC801.4

ETC801.5

ETC801.6

CO Number	Course Outcome
	Students will be able to understand the basic concepts of satellite communication system and define its functions.
ECCDLO8043.1	
	Students will be able to explain satellite orbital parameters and explain its mechanism.
ECCDLO8043.2	
ECCDLO8043.3	Students will be able to design link budget of satellite signal for proper communication.
ECCDLO8043.4	Students will be able to analyze various performance parameters of satellite communication systems.
	Students will be able to compare various Multiple Access Technique and identify the application areas of satellite communication.
ECCDLO8043.5	
ECCDLO8043.6	Students will be able to present a case study on a given topic in the area of satellite communication.

Course Name:		NMT e	lective	
Course Code		ECCDL8044		
Faculty Name:	Po	onam C	hakraborty	
Year	4	Sem	VIII	
CO Number				Course Outcome
ECCDLO8044.1	The studer and Inform			fundamental principles and technical underlying standards in : Telecommunication, Networking
ECCDLO8044.2	The studer	nts will be	able to explain Con	nmunications Network Management Systems and their strengths and limitations.
ECCDLO8044.3	The studer communication			orked informative systems and continuously improve their technological knowledge and
ECCDLO8044.4	The studer	nts will be	able to analyze ope	eration and management of modern data communications networks.
ECCDLO8044.5			able to compare th ures systems and m	e way technological change and emerging technologies might alter the assumptions for the nanagement tools.
ECCDL08044.6	The studer	nts will be	able to propose the	design of Network management model based on the case study.

Course Name:		RF Des	ign Lab	
Course Code	ECL801			
Faculty Name:	Ms. Freda C.		eda C.	
Year	4	Sem	VIII	
CO Number				Course Outcome
ECL801.1	Student wi	ll be able	to explain concepts	related to design of RF filter, Amplifier.
ECL801.2	Student wi	ll be able	to use stability, gain	, noise circle equations,etc to design of RF filter,Oscillators, Amplifier.
ECL801.3			e to apply their theo oftware like GENES	oretical knowledge and demonstrate proficiency to operate various instruments like directional YS
ECL801.4	Student wi	ll be able	to analyse performa	ance of devices using S parameters to with respect to certain defined specifications.
ECL801.5			e to investigate and or similar topics	Assess current state of research on a topic and also Determine methodologies used in past
ECL801.6	Students w	vill be able	e to design/simulate	and evaluate the behaviour of microwave circuits

Course Code	ECL802					
Faculty Name:	Ms. Aparna T.					
Year	4	Sem	VIII			
CO Number	Course Outcome					
ECL801.1	Students v	Students will able to identify various hardware and software components required in the wireless networks.				
ECL801.2	Students v	Students will able to demonstrate the configuration of WLAN, WPAN using packet Tracer				
ECL801.3	Students v	Students will able to calculate the Qos parameter of wireless sensor network				
ECL801.4	Students v	vill able to	apply uplink and do	ownlink budget analysis for GSM, CDMA, WCDMA and HSPA Technologies		
ECL801.5	Students v	vill be abl	e to create wired and	d wireless scenario using ns2 simulation		

Students will be able to design/write a report on a practical application on wireless network

Course Name:

ECL801.6

WN-LAB

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Course Name:	Satellite (Communi	cation Laboratory	
Course Code	ECLDLO8043		08043	
Faculty Name:		Gejo G	eorge	
Year	4	Sem	VIII	
CO Number				Course Outcome
ECLDLO8043.1	Students w	vill be able	to understand the	basic concepts of satellite communication and be able to establish a valid communication link.
ECLDLO8043.2	Students w	vill be able	to apply their know	eledge of satellite communication to operate on the set-up to detect faults and correct the same.
ECLDLO8043.3	Students w	vill be able	to analyze and me	asure various parameters related to satellite communications.
ECLDLO8043.4	Students w	vill be able	to simulate and ve	rify the parameters for a given set of conditions using open source software.
ECLDLO8043.5	Students w	vill be able	to present a case s	study on a given topic in the area of satellite communication.
ECLDLO8043.6	Students w	vill be able	to prepare a techni	ical report based on the industrial visit to Satellite Earth Station. Yeur.

Course Name:	NMT-LAB			
Course Code	ECLDLO 8044			
Faculty Name:		Ms Poo	onam C	
Year	4	Sem	VIII	
CO Number				Course Outcome
ECLDLO 8044.1			able to understand	the basic tools used for network management, learn some some softwares like CISCO Packet s
ECLDLO 8044.2	The studer command			s with basic network status monitoring tools using Linux commands and Packet Sniffer software or
ECLDLO 8044.3	The studer	nts will be	able to build various	s network using Packet Tracer
ECLDLO 8044.4	The studer	nts will be	able to examine the	e various network behavior for the built network.
ECLDLO 8044.5	The studer	nts will be	able to evaluate val	rious performance parameters from the built network.
ECLDLO 8044.6	The studer		able to propose the	e Management software or network management tool reqired for doing the specific task in an

Course Name:	P	ROJECT	STAGE-II						
Course Code		ETF	801						
Faculty Name:	Na	aheed Aı	njum Khan						
Year	4	Sem	VIII						
CO Number		Course Outcome							
ETP801.1	Students w	Students will be able to convert the design into a Product/Model/Prototype and validate the results.							
ETP801.2		tudents will be able to execute the project plan by working as a team to meet deadlines by maintaining ethics and professional esponsibilities.							
	Students w	tudents will be able to present their work effectively through technical presentations, conference/journal publications and technical prots following ethical practices.							