DEPARTMENT OF ELECTRONICS & TELECOMMUNICATION

COURSE OUTCOMES AND PROGRAM OUTCOMES (120)

Micro controller

Course Name:

CAY-	Even	semest	er,	2023	-24
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	CAY- (Even semester, 2023-24)							
Course Name:			Maths IV					
Course Code			ECC401					
Faculty Name:		Dr. Re	vathy Sundarajan					
Year	2	Sem	IV					
CO Number				Course Outcome				
ECC401.1	Students will be able to (i) Obtain Eigen values and Eigen vectors for a given square matrix (ii) Define Metric spaces (iii) Define Karl Pearson's correlation coefficient and Spearman's rank correlation coefficient							
ECC401.2	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 if a given distance / set is a metric / metric space (iv) Calculate conditional Probabilities using Bayes' theorem (v) Obtain plan ded dof off 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 Special random variables following Binomial Poisson and Normal distributions (viii) Karl-Pearson's Coefficient of Correlation and Special random variables following Binomial Poisson and Normal distributions (viii) Karl-Pearson's Coefficient of Correlation and Special Random variables following Binomial Poisson and Normal distributions (viii) Karl-Pearson's Coefficient of Correlation and Special Random variables following Binomial Poisson and Normal distributions (viii) Karl-Pearson's Coefficient of Correlation and Special Random variables following Binomial Poisson and Normal distributions (viii) Karl-Pearson's Coefficient of Correlation and Special Random variables following Binomial Poisson and Normal distributions (viii) Karl-Pearson's Coefficient of Correlation and Special Random variables following Binomial Poisson and Normal distributions (viii) Karl-Pearson's Coefficient of Correlation and Special Random variables following Binomial Poisson and Normal distributions (viii) Karl-Pearson's Coefficient of Correlation and Special Random variables following Binomial Poisson and Normal distributions (viii) Karl-Pearson's Coefficient of Correlation and Special Random variables followed by the Random variables followed by							
ECC401.3	Taylor's a Obtain MO	Students will be able to (i) Construct diagonal matrices using the concept of similarity (ii) Build functions of square matrices (iii) Obtain normal and orthogonal forms of Quadratic forms (iv) Obtain scremals of a given integral using the theory of Calculus of variations (v) Evaluate integrals using the different Cauchy's theorems (Integral theorem, Residue theorem) (vi) Obtain Obtain of the control of the						
ECC401.4			le to (i) Obtain extremals of a gi istributions	ven integral under some constraints using the theory of Calculus of variations (Isoperimetric problems) (ii) Obtain probabilities and z-				

Course Code		ECC-402			
Faculty Name:		Prof Hemlata Mote			
Year	2	Sem	IV		
CO Number				Course Outcome	
ECC402.01	22.01 Student will know basic features, architecture and pin configuration of 8051 and ARM7 microcontroller.				
ECC402.02	2 Student will be able to demonstrate understanding of memory organization, Instruction set, addressing modes, I/O ports, counter/timer, Interrupts, UART of 8051 and ARM7 microcontroller.				
ECC402.03	Student will be able to apply knowledge of instruction set to write assembly language program for given logic.				
		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.			
ECC402.05	Students v	Students will analyse input/output interface and demonstrate knowledge via simulation.			
ECC402.06	Student w	Student will be able to design microcontroller based system for various application			

Course Name:		Linear integrated Circuits					
Course Code			ECC403				
Faculty Name:		Prof Pratibha Dumane					
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 stude	The student will be able to analyze important types of linear integrated circuits of day-to-day requirements.					
ECC403.4	The stude	The student will be able to evaluate various parameters for any given linear integrated circuits					
ECC403.5	The stude	he students will be able to apply the concepts to a particular circuit to build a given application in linear integrated circuits					
ECC403.6	The stude	nts will b	e able to design a circuit for any	particular applications in the area of linear integrated circuit.			

Course Name:		Sign	nals and Systems				
Course Code			ECC404				
Faculty Name:		Pro	f Joshua Michale				
Year	2	Sem	IV				
CO Number				Course Outcome			
ECC404.1	Students	will be ab	ole to learn the mathematical de	scription and representation of continuous and discrete time signals and systems.			
ECC404.2	Students	will be ab	ole to interpret & classify signal	s & systems based on their different properties.			
ECC404.3	Students will be able to apply appropriate transforms on continuous-time and discrete-time signals to determine the response of LTI system.						
ECC404.4	Students will be able to analyse the continuous-time and discrete time signals and system.						
ECC404.5	Students will be able to evaluate the different signal processing algorithms to be used for various applications.						
ECC404.6	Students	will be ab	ole to realize and design recursi	ve and non recursive systems.			

Course Name:	Principles of Communication Engineering							
Course Code			ECC405					
Faculty Name:		Mrs.	Namita Agarwal					
Year	2	Sem	IV					
CO Number				Course Outcome				
ECC405.1	The students will be able to describe the basic components, types of noise and principles of multiplexing techniques in a communication system.							
ECC405.2	The students will be able to discuss the different types of modulation and demodulation techniques for analog communication.							
ECC405.3	The studer	The students will be able to apply their knowledge in obtaining the different performance parameters of a communication system.						
ECC405.4	The students will be able to analyze and compare Amplitude and Frequency Modulation/Demodulation and multiplexing systems.							
ECC405.5	The studer	he students will be able to evaluate the performance of a communication system.						
ECC405.6	The studer	nts will b	e able to justify the use of partic	ular analog communication, pulse modulation and multiplexing technique.				

Course Name:		MC LAB				
Course Code			ECL401			
Faculty Name:		Pro	f Hemlata Mote			
Year	2	Sem	IV			
CO Number				Course Outcome		
ECL401.1	Student v	vill know l	basic features, architecture and p	oin configuration of 8051 and ARM7 microcontroller.		
ECL401.2	Student v	vill be able	e to demonstrate understanding	of memory organization, Instruction set, addressing modes, I/O ports, counter/ timer, Interrupts, UART of 8051 and ARM7 microcontroller.		
ECL401.3	Student v	vill be able	e to apply knowledge of instruct	ion set to write assembly language program for given logic.		
ECL401.4	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.					
ECL401.5	Students will analyse input/output interface and demonstrate knowledge via simulation.					
ECL401.6	Student v	vill be able	e to design microcontroller base	d system for various application		

Course Name:	LIC LAB		LIC LAB			
Course Code		ECL402				
Faculty Name:	Prof. Pratibha Dumane		Pratibha Dumane			
Year	2	2 Sem IV				
CO Number				Course Outcome		
ECL402.1	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	The 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	he students will be able to apply the concepts of the numerous ICs they learn in practical circuits				
ECL402.6	The studer	ıts will b	e able to design the circuit for a	given application		

	Princi		ommunication Engineering Laboratory				
Course Code			ECL403				
Faculty Name:		Mrs. Namita Agarwal					
Year	2	Sem	IV				
CO Number				Course Outcome			
ECL403.1	The students will be able to experimentally demonstrate and explain the analog modulation techniques.						
ECL403.2	The stude	The students will be able to experimentally implement and perform analog and pulse modulation techniques.					
ECL403.3	The stude	The students will be able to find the different physical parameters of the various modulated signals.					
ECL403.4	The students will be able to analyze the waveforms of various types of analog and pulse modulation methods.						
ECL403.5	The stude	The students will be able to simulate and compare the different modulation techniques					
ECL403.6	The stude	he students will be able to compute and verify the characteristics of modulation methods.					

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Course Name:	Skill Lab: Python Programming					
Course Code			ECL404			
Faculty Name:	Prof. Joshua Michale					
Year	2	2 Sem IV				
CO Number	Course Outcome					
ECL401.1	Students	will be ab	le to Describe syntax and seman	ntics in Python		
ECL401.2	Students	Students will be able to Illustrate different file handling operations				
ECL401.3	Students	Students will be able to Interpret object oriented programming in Python				
ECL401.4	Students will be able to Design GUI Applications in Python					
ECL401.5	Students will be able to Express proficiency in the handling Python libraries for data science					
ECL401.6	Students	will be ab	le to Develop machine learning	applications using Python		

Course Name:		M	ini Project 1B				
Course Code		ECM401					
Faculty Name:		Mr. Ankur G, Freda C.					
Year	2	Sem	IV				
CO Number	Course Outcome						
ECM401.1	Students will be able to Write basic codes for the Arduino board and Raspberry Pi using the IDE for utilizing the onboard resources						
ECM401.2	Students w	Students will be able to comprehend codes and make changes to them to implement your application					
ECM401.3	Students w	Students will be able to Apply the knowledge of interfacing different devices to the Arduino board to accomplish a given task.					
ECM401.4	Students w	Students will be able to analyse results of the project and make necessary advancements in order to implement the end result.					
ECM401.5	Students will be able to Design Arduino based projects for a given problem						
ECM401.6	Students w	ill be ab	le to Design solutions societal/o	environmental / medical application			

Course Name:		Elec	tromagnetics and Antenna				
Course Code			ECC601				
Faculty Name:		Dr. A	shwini Kotrashetti				
Year	3	Sem	VI				
CO Number				Course Outcome			
ECC601.1	Student will be able to define and explain Maxwell's equations, various antenna parameters, different propagation effects.						
ECC601.2	Student will be able to use Maxwell's equations for derivations of various antennas. They will be able to solve problems on antenna fundamentals						
ECC601.3	Student wantennas.	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 fantennas.					
ECC601.4	Student will be able to analyse the radiation pattern, beamwidth, directivity, null directions for antenna array, yagi and log periodic antenna						
ECC601.5	Student w	tudent will be able to evaluate the given specifications to arrive at the appropriate design/circuit considerations of antennas					
ECC601.6	Student w	ill be abl	e to suggest an appropriate desi	gn method of antenna system for the given specifications			

Course Name:	CCN						
Course Code			ECC602				
Faculty Name:		Prof.	Aparna Telgote				
Year	3	Sem	VI				
CO Number				Course Outcome			
ECC602.1	Students w	Students will be able to define and describe the basic concepts of computer networks					
ECC602.2	Students w	tudents 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 w	tudents will be able to apply various error detection and correction methods along with routing algorithms .					
ECC602.4	Students w	students will be able to compare various protocols,multiple access techniques and routing algorithms used in computer networks.					
ECC602.5	Students w	students will be able to evaluate the performance of a computer network.					
ECC602.6	Students w	vill be ab	le to formulate,design and apply	subnet masks and addresses to fulfill networking requirements			

Course Name:	Image P	rocessing	and Machine Vision (IPMV)			
Course Code			ECC603			
Faculty Name:		Pro	f. Hemlata Mote			
Year	3	Sem	VI			
CO Number	Course O	utcome				
ECC603.1	Students v	vill be ab	le to know basics of image proc	essing with fundamental processes.		
ECC603.2	Students v	vill be ab	le to understand fundamental co	ncepts of formation and sampling of images.		
ECC603.3	Students v	vill be ab	le to improve the quality of an i	mage in spatial domain as well as in frequency domain.		
ECC603.4	Students will be able to interpret and analyze images in spatial and frequency domain.					
ECC603.5	Students will be able to choose appropriate method to reconstruct original image from degraded image.					
ECC603.6	Students v	vill be ab	le to design methods for process	sing images for human interpretation or further processing.		

Course Name:	Artificia	ıl Neura	l Network and Fuzzy Logic (ANNFL)				
Course Code			ECC604				
Faculty Name:		Prof.	Pratibha Dumane				
Year	3		VI				
CO Number				Course Outcome			
ECC604.1	Students will be able to define the various terms related to neural networks and also describe the neural network learning rules, their architectures (including Convolutional Neural Networks) and applications, fuzzy logic, fuzzy properties, fuzzy rules and fuzzy reasoning. (Remembering)						
ECC604.2	Students w	ill be abl	le to explain the different types of	of supervised and unsupervised learning neural networks, fuzzification & defuzzification methods, fuzzy inference systems. (Understanding)			
ECC604.3	Students will be able to select a particular neural network for specified application and apply fuzzy logic for specific applications. (Applying)						
ECC604.4	The students will be able to apply the different algorithms for given specifications of neural networks and analyze their outputs and deduce fuzzy relations using fuzzy logic. (Analyzing)						
ECC604.5	The students will be able to evaluate the given neural network for specific input patterns and activation functions. (Evaluating)						
ECC604.6	The studen	ts will b	e able to solve problems that inc	lude uncertainty using fuzzy membership functions and compositions. (Evaluating)			

Course Name:	Radar Engineering						
Course Code	ECCDLO6016						
Faculty Name:		Dr. As	hwini Kotrashetti				
Year	3		VI				
CO Number				Course Outcome			
ECCDLO6016.1	Student wil	l be able	to explain the fundamental con-	cept of RADAR. They will be explain the working principle the different types of Radar displays and their application in real time scenario.			
ECCDLO6016.2	Students wi	ill be ab	le to demonstrate an understandi	ng of the factors affecting the radar performance using Radar Range Equation.			
ECCDLO6016.3	Students wi Matched Fi	Students will be able to apply concepts of working principles to differentiate between different types of RADARS. Also they will be able to demonstrate an understanding of the importance of Matched Filher Receivers in Radars.					
ECCDLO6016.4	Students wi	Students will be able to analyze cases to identify the suitable measurement methodologies to characterize and verify the performance of radar systems					
ECCDLO6016.5	Students wi	Students will be able to evaluate design constraints for RADAR transmitters & receivers					
ECCDLO6016.6	Students wi	students will be able to design radar systems computationally and use modern tools					

Course Name:	DATAB	ASE M	IANAGEMENT SYSTEM				
Course Code		E	CCDLO6014				
Faculty Name:		Ms. M	adhavi Pednekar				
Year	3	Sem	VI				
CO Number				Course Outcome			
ECCDLO6014.1	Students wil	l be abl	e to understand, define and exp	lain the fundamentals of database management systems.			
ECCDLO6014.2	Students wil	Students will be able to understand the concept of Relational Algebra, Views, Triggers & Transaction Management					
ECCDLO6014.3	Students wil	Students will be able to apply and formulate SQL queries to manage the database system.					
ECCDLO6014.4	Students will be able to convert conceptual model to relational model and formulate relational algebra queries.						
ECCDLO6014.5	Students wil	Students will be able to analyze and design a relational database design using transcations, management and recovery.					
ECCDLO6014.6	Students wil	l be abl	e to to design the conceptual m	odel of database used as real life applications.			

Course Name:	Electromagnetics and Antenna Lab							
Course Code			ECL601					
Faculty Name:		Dr. As	shwini Kotrashetti					
Year	3		VI					
CO Number	Course C	outcome						
ECL601.1	Students	will be ab	le to explain and define various	antenna parameters and also explain propagation effects.				
ECL601.2	Students	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						
ECL601.3	Students	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						
ECL601.4	Student w	Student will be able to analyse radiation pattern and S11 parameters to compare antennas with respect to certain defined antenna parameters						
ECL601.5	Students	Students will be able to investigate inorder to assess the need of adaptation for technological change in the field of antennas						
ECL601.6	Student v	vill be abl	le to evaluate given specification	s to arrive at appropriate theoretical design of antennas and validate through simulation				

Course Code	ECL602		ECL602				
Faculty Name:		Prof. Po	onam Chakraborty				
Year	3	Sem	VI				
CO Number				Course Outcome			
ECL602.1	Students	students will be able to explain the various network devices and protocols used at each layer.					
ECL602.2	Students	Students will be able to understand and perform various network commands on Linux.					
ECL602.3	Students	Students will be able to apply error detection and correction techniques.					
ECL602.4	Students	Students will be able to analyze the traffic flow and protocol frames					
ECL602.5	Students	Students will be able to simulate and evaluate the performance of a computer network.					
ECL602.6	Students will be able to design a computer network as per specific need.						

Course Name:

CCN LAB

Course Name:	Ima	ge Proces Labora	ssing and Machine Vision atory (IPMV LAB)				
Course Code			ECL603				
Faculty Name:	Prof. H	iemlata M	Iote, Prof Pratibha Dumane				
Year	3	Sem	VI				
CO Number				Course Outcome			
ECL603.1	Students v	will be ab	le to understand programming co	onstructs for image processing and machine vision.			
ECL603.2	Students v	Students will be able to read, modify, display and create images.					
ECL603.3	Students	Students will be able to improve the subjective quality of images in spatial domain and frequency domain.					
ECL603.4	Students will be able to analyze and interpret the images for machine vision.						
ECL603.5	Students v	Students will be able to choose appropriate filter to remove the noise.					
ECL603.6	Students v	will be ab	le to design filters for image pro-	cessing and machine vison.			

Skill La						
		ECL604				
Prof. Aparna Telgote						
3	Sem	VI				
			Course Outcome			
Students will be able to install Linux using different platform and execute standard Linux commands						
Students v	Students will be able to describe the basic knowledge of Linux Operating System					
Students v	students will be able to deploy the system administrative functionality					
Students v	Students will be able to solve the problems using shell script programming					
Students will be able to develop network based applications						
Students v	tudents will be able to Apply the Linux commands using programming skill to deploy different servers like ftp, telnet etc.					
	3 Students v Students v Students v Students v	Prof. 3 Sem Students will be ab Students will be ab Students will be ab Students will be ab	Prof. Aparna Telgote 3 Sem VI Students will be able to install Linux using different students will be able to describe the basic knowled students will be able to deploy the system administrated the substance of the substance			

Course Name:	Mini Project 2B- FPGA based Project						
Course Code	ECM601						
Faculty Name:		Dr. S	Sudhakar Mande				
Year	3	Sem	VI				
CO Number				Course Outcome			
ECM601.1	Understan	d various	FPGA families and method of	FPGA synthesis and implementation			
ECM601.2	Learn the working of basic EDA tools like Xilinx, Modelsim cadence, etc						
ECM601.3	Able to pr	Able to program, simulate and synthesize circuits in Verilog HDL					
ECM601.4	Learn the technique of interfacing of LED, switches and seven segment with FPGA.						
ECM601.5	Learn the project documentation, designing and handling techniques						
ECM601.6	Analysis o	Analysis of FPAG fault detection and verification principles					

	OCN				
	ECC801				
Prof. Po	oonam Chakraborty				
4 Sem	VIII				
		Course Outcome			
students should	I be able to describe various the	ories and principles used in fiber optics communication, fiber sources and detectors, network components and network management.			
The students should be able to explain various methods involved in fiber fabrication, various types of components, various losses, network architectures and concept of network design					
The students should be able to apply various theories of fiber optics for selecting the right component in the fiber optics network design for improving the receiver performance, fault management and protection.					
The students should be able to analyze various types of fibers based on their transmission characteristics, fiber losses, optical network system components, types of optical networks, various multiplexing and de-multiplexing schemes, power penalty based on the given application.					
The students should be able to evaluate various fiber parameters, number of modes, losses, quantum efficiency, bit error rate, non linearity and the link power budget and rise time budget for any given fiber link.(
The students should be able to design a optical fiber communication links using appropriate components for any topographical scenario.					
s i	tudents should tudents should tudents should gement and pri tudents should plexing and de tudents should vien fiber link	Prof. Poonam Chakraborty Sem VIII tudents should be able to describe various the tudents should be able to explain various mentudents should be able to apply various theoriegement and protection. tudents should be able to analyze various type plexing and de-multiplexing schemes, power putudents should be able to evaluate various fibe trend there link. (

Course Name:			OCN LAB				
Course Code			ECL801				
Faculty Name:	Prof.	Poonam (Chakraborty, Prof Madhavi Pednekar				
Year	4	Sem	VIII				
CO Number				Course Outcome			
ECL801.1	Students	Students will have comprehensive knowledge and skills relating to Fiber components and fiber transmissions					
		The students will have the understanding of the principle of Rays Optics (for fiber optics communication) and using these principles will be able to transmit and receive an analog and digital signal using fiber optics communication.					
ECL801.3	Students	Students will be able to apply various measuring techniques for finding attenuation coefficient, numerical aperture a, responsivity of the fiber.					
ECL801.4	The stude	The students will be able to evaluate various parameters of the fiber cable like bending loss, attenuation loss and Numerical Aperture for the given fiber cable					
ECL801.5	The stude	The students will be able to analyze and plot various characteristic of the fiber source(LED's) and Photodetector					
ECL801.6	The stude	nts will b	e able to design a fiber point to p	point link for a given scenario. They will be able to propose solution for sustainable technology related to fiber optics			

Course Name:	WN Elective		WN Elective			
Course Code	ECCDLOC8013		CCDLOC8013			
Faculty Name:	Prof Aparna Telgote					
Year	4	Sem	VIII			
CO Number	Course Outcome					
ECCDLOC8013.1	3.1 Students will be able to explain the fundamentals, architecture, design issues and standards of wireless networks					
ECCDLOC8013.2	Students will be able to classify the Wireless Network as per the coverage and list the various technologies associate with it.					
ECCDLOC8013.3	Student will be able to compare Body area network (BAN) and personal area network (PAN) technologies such as Zigbee, Bluetooth, UWB, RFID, NFC etc., WLAN and WMAN.					
ECCDLOC8013.4	Students v	Students will be able to give details of sensor network architecture, traffic related protocols , transmission technology etc				
ECCDLOC8013.5	Students v	Students will be able to calculate the coverage of 2G 3G cellular system				
ECCDLOC8013.6	Students will be able to design uplink and downlink budget for GSM, CDMA, WCDMA, HSDPA Technologies					

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Course Name:	NMT elective					
Course Code	ECCDLO8023					
Faculty Name:	Poonam Chakraborty					
Year	4	Sem	VIII			
CO Number	Course Outcome					
ECCDLO8023.1	The students will be able to define the fundamental principles and technical underlying standards in: Telecommunication, Networking and Information Technologies.					
ECCDLO8023.2	The students will be able to explain Communications Network Management Systems and their strengths and limitations.					
ECCDLO8023.3	The students will be able to model networked informative systems and continuously improve their technological knowledge and communication skills.					
ECCDLO8023.4	The students will be able to analyze operation and management of modern data communications networks.					
ECCDLO8023.5	The students will be able to compare the way technological change and emerging technologies might alter the assumptions for the underlying architectures systems and management tools.					
ECCDLO8023.6	The students will be able to propose the design of Network management model based on the case study.					

Course Name:	Satellite and Nano-satellite Communication (Elective)				
Course Code	ECCDLO8022				
Faculty Name:	Prof. Madhavi Pednekar				
Year	4	Sem	VIII		
CO Number	Course Outcome				
ECCDLO8022.1	Student will be able to understand the basic concepts of satellite and Nano satellite communication system and orbital parameters.				
ECCDLO8022.2	Student will be able to explain the various satellite sub-systems, earth station technologies and launching mechanisms.				
ECCDLO8022.3	Student will be able to design link budget based on various performance parameters of satellite signal for proper communication.				
ECCDLO8022.4	Student will be able to analyze Satellite Losses and Link Budget.				
ECCDLO8022.5	Student will be able to evaluate the performance of various parameters of satellite signal for proper communication.				
ECCDLO8022.6	Student will be able to write a technical report based on Nano satellite's structure design, payloads, Thermal control system and space segment.				

Course Name:	PROJECT STAGE-II					
Course Code			ECP801			
Faculty Name:	Prof. Mdhavi Pednekar					
Year	4	Sem	VIII			
CO Number	Course O	Course Outcome				
ECP801.1	Students v	Students will be able to convert the design into a Product/Model/Prototype and validate the results.				
ECP801.2	Students v	Students will be able to execute the project plan by working as a team to meet deadlines by maintaining ethics and professional responsibilities.				
ECP801.3	Students v	Students will be able to present their work effectively through technical presentations, conference/journal publications and technical reports following ethical practices.				