

DON BOSCO INSTITUTE OF TECHNOLOGY, MUMBAI
DEPARTMENT OF ELECTRONICS & TELECOMMUNICATION
COURSE OUTCOMES

CAY- (Even semester, 2021-22)

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|----------------------|--|------------|----|
| Course Name: | Maths IV | | |
| Course Code | ECC401 | | |
| Faculty Name: | Mr. SataNarayan | | |
| 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 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 | 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 extremals 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 Taylor's and Laurent's series (vii) Identify orthogonal vectors and obtain orthonormal basis using Gram-Schmidt process (viii) Use Bayes' theorem to obtain conditional probabilities (x) Obtain MGF and hence obtain the mean and variance (up to first 4 moments) of a random variable Obtain probabilities using correct interpretation of Binomial distribution, Poisson and normal approximations to binomial distribution and also Binomial approximation 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 | | |

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| Course Name: | Micro Controller | | |
| Course Code | ECC-402 | | |
| Faculty Name: | Prof. Jithin Isacc | | |
| Year | 2 | Sem | IV |
| CO Number | Course Outcome | | |
| ECC402.01 | Student will know basic features, architecture and pin configuration of 8051 and ARM7 microcontroller. | | |
| ECC402.02 | 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. | | |
| ECC402.04 | 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 will analyse input/output interface and demonstrate knowledge via simulation. | | |
| ECC402.06 | Student will be able to design microcontroller based system for various application | | |

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|----------------------|-----------------------------------|------------|----|
| Course Name: | Linear Integrated Circuits | | |
| Course Code | ECC403 | | |
| Faculty Name: | Dr. S S Mande | | |
| 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. |

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|----------------------|----------------------|------------|----|
| Course Name: | SS | | |
| Course Code | ECC404 | | |
| Faculty Name: | Satish Chavan | | |
| Year | 2 | Sem | IV |

| CO Number | Course Outcome |
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| ECC404.1 | Students will be able to learn the mathematical description and representation of continuous and discrete time signals and systems. |
| ECC404.2 | Students will be able to interpret & classify 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 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 will be able to realize and design recursive and non recursive systems in different forms. |

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|----------------------|--|------------|----|
| 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 noises 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 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 the concepts of Amplitude and Frequency Modulation and Demodulation systems. | | |
| ECC405.5 | The students will be able to evaluate and compare analog communication, pulse modulation and multiplexing techniques. | | |
| ECC405.6 | The students will be able to explore the applications of different modulation techniques and present their work. | | |

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| Course Name | Principles of Communication 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 students will be able to experimentally implement and perform analog and pulse modulation techniques. | | |
| ECL403.3 | 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 students will be able to simulate and compare the different modulation techniques | | |

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|----------------------|------------------|------------|----|
| Course Name: | LIC LAB | | |
| Course Code | ECL402 | | |
| Faculty Name: | Dr. Mande | | |
| Year | 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 students will be able to identify the particular circuit necessary to perform a particular operation |
| ECL402.3 | The students will be able to analyze the working of different types of circuits |
| ECL402.4 | The students will be able to evaluate various parameters of the given circuit. |
| ECL402.5 | The students will be able to apply the concepts of the numerous ICs they learn in practical circuits |
| ECL402.6 | The students will be able to design the circuit for a given application |

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|----------------------|--------------------------|------------|----|
| Course Name: | MC LAB | | |
| Course Code | ECL401 | | |
| Faculty Name: | Prof Jithin Isacc | | |
| Year | 2 | Sem | IV |

| CO Number | Course Outcome |
|------------------|--|
| ECL401.1 | Student will know basic features, architecture and pin configuration of 8051 and ARM7 microcontroller. |
| ECL401.2 | 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. |
| ECL401.3 | Student will be able to apply knowledge of instruction 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 will be able to design microcontroller based system for various application |

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| Course Name: | Skill Lab: Python Programming | | |
| Course Code | ECL404 | | |
| Faculty Name: | Prof. Poonam Chakraborty | | |
| Year | 2 | Sem | IV |

| CO Number | Course Outcome |
|------------------|--|
| ECL401.1 | Students will be able to Describe syntax and semantics in Python |
| ECL401.2 | Students will be able to Illustrate different file handling operations |
| ECL401.3 | 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 able to Develop machine learning applications using Python |

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| Course Name: | Mini Project 1B | | |
| Course Code | ECM401 | | |
| Faculty Name: | Mr. Jithin Isaac, Ms. Aparna Telgote, Freda C. | | |
| Year | 2 | Sem | IV |

| CO Number | Course Outcome |
|------------------|---|
| ECL401.1 | Students will be able to Write basic codes for the Arduino board using the IDE for utilizing the onboard resources |
| ECL401.2 | Students will be able to Write code using python language using IDE for utilizing the onboard resources. |
| ECL401.3 | Students will be able to Apply the knowledge of interfacing different devices to the Arduino board to accomplish a given task. |
| ECL401.4 | Students will be able to Apply the knowledge of interfacing different devices to raspberry Pi board to accomplish a given task. |
| ECL401.5 | Students will be able to Design Arduino based projects for a given problem |
| ECL401.6 | Students will be able to Design Raspberry Pi based projects for a given problem. |

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|----------------------|-------------------------------------|------------|----|
| Course Name: | Electromagnetics and Antenna | | |
| Course Code | ECC601 | | |
| Faculty Name: | Dr. Ashwini 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 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. |
| 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 will be able to evaluate the given specifications to arrive at the appropriate design/circuit considerations of antennas |
| ECC601.6 | Student will be able to suggest an appropriate design method of antenna system for the given specifications |

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|----------------------|-----------------------|------------|----|
| 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 |

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| Course Name: | Image Processing and Machine Vision (IPMV) | | |
| Course Code | ECC603 | | |
| Faculty Name: | Dr. Satishkumar S. Chavan | | |
| Year | 3 | Sem | VI |

| CO Number | Course Outcome |
|------------------|---|
| ECC603.1 | Students will be able to know basics of image processing with fundamental processes. |
| ECC603.2 | Students will be able to understand fundamental concepts of formation and sampling of images. |
| ECC603.3 | Students will be able to improve the quality of an image 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 will be able to design methods for processing images for human interpretation or further processing. |

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| Course Name: | Artificial Neural 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. |
| ECC604.2 | Students will be able to explain the different types of supervised and unsupervised learning neural networks, fuzzification & defuzzification methods, fuzzy inference systems. |
| ECC604.3 | Students will be able to select a particular neural network for specified application and apply fuzzy logic for specific applications. |
| 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. |
| ECC604.5 | The students will be able to evaluate the given neural network for specific input patterns and activation functions. |
| ECC604.6 | The students will be able to solve problems that include uncertainty using fuzzy membership functions and compositions. |

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| Course Name: | Radar Engineering | | |
| Course Code | ECCDLO6016 | | |
| Faculty Name: | Dr. Ashwini Kotrashetti | | |
| Year | 3 | | VI |

| CO Number | Course Outcome |
|---------------------|---|
| ECCDLO6016.1 | 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. |
| ECCDLO6016.2 | Students will be able to demonstrate an understanding of the factors affecting the radar performance using Radar Range Equation. |
| ECCDLO6016.3 | 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 Filter Receivers in Radars. |
| ECCDLO6016.4 | 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 will be able to evaluate design constraints for RADAR transmitters & receivers |
| ECCDLO6016.6 | Students will be able to design radar systems computationally and use modern tools |

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|----------------------|---|--|----|
| Course Name: | Electromagnetics and Antenna Lab | | |
| Course Code | ECL601 | | |
| Faculty Name: | Dr. Ashwini Kotrashetti | | |
| Year | 3 | | VI |

| CO Number | Course Outcome |
|------------------|--|
| ECL601.1 | Students will be able to explain and define various antenna parameters and also explain propagation effects. |
| ECL601.2 | 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 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 will be able to analyse radiation pattern and S11 parameters to compare antennas with respect to certain defined antenna parameters |
| ECL601.5 | Students will be able to investigate inorder to assess the need of adaptation for technological change in the field of antennas |
| ECL601.6 | Student will be able to evaluate given specifications to arrive at appropriate theoretical design of antennas and validate through simulation |

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|----------------------|-----------------------|------------|----|
| Course Name: | CCN 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 will be able to design a computer network as per specific need. |

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| Course Name: | Image Processing and Machine Vision Laboratory (IPMV LAB) | | |
| Course Code | ECL603 | | |
| Faculty Name: | Dr. Satish Chavan | | |
| Year | 3 | Sem | VI |

| CO Number | Course Outcome |
|------------------|---|
| ECL603.1 | Students will be able to understand programming constructs for image processing and machine vision. |
| ECL603.2 | Students will be able to read, modify, display and create images. |
| ECL603.3 | 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 will be able to choose appropriate filter to remove the noise. |
| ECL603.6 | Students will be able to design filters for image processing and machine vision. |

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|----------------------|---|------------|----|
| Course Name: | Skill Lab: Linux and Networking and Server Configuration | | |
| Course Code | ECL604 | | |
| Faculty Name: | Prof. Aparna Telgote | | |
| Year | 3 | Sem | VI |

| CO Number | Course Outcome |
|------------------|---|
| ECL603.1 | Students will be able to install Linux using different platform and execute standard Linux commands |
| ECL603.2 | Students will be able to describe the basic knowledge of Linux Operating System |
| ECL603.3 | Students will be able to deploy the system administrative functionality |
| ECL603.4 | Students will be able to Solve the problems using shell script programming |
| ECL603.5 | Students will be able to Develop network based applications |
| ECL603.6 | Students will be able to Apply the Linux commands using programming skill to deploy different servers like ftp, telnet etc. |

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|----------------------|--|------------|----|
| Course Name: | Mini Project 2B- FPGA based Project | | |
| Course Code | ECM601 | | |
| Faculty Name: | Dr. Sudhakar Mande | | |
| Year | 3 | Sem | VI |

| CO Number | Course Outcome |
|------------------|--|
| ECM601.1 | Understand 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 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 of FPAG fault detection and verification principles |

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|----------------------|---------------------|------------|------|
| Course Name: | RF Design | | |
| Course Code | ECC801 | | |
| Faculty Name: | Ms. Freda 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 will be able to apply concepts to compare various types of microwave gain considerations based on the requirements /applications. |
| ECC801.4 | Student will be able to analyse the performance of amplifier,oscillators and Filters using Smith Chart and arrive at a suitable design. |
| ECC801.5 | Student will be able to identify EMI in RF circuits and study of various Electromagnetic Compatibility techniques. |
| ECC801.6 | Student will be able to suggest an appropriate design method of system for the given specifications |

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|----------------------|--------------------------|------------|------|
| Course Name: | WN | | |
| Course Code | ECC802 | | |
| Faculty Name: | Aparna M. Telgote | | |
| Year | 4 | Sem | VIII |

| CO Number | Course Outcome |
|------------------|---|
| ECC802.1 | Students will be able to explain the fundamentals, architecture, design issues and standards of wireless networks |
| ECC802.2 | Students will be able to classify the Wireless Network as per the coverage and list the various technologies associate with it. |
| ECC802.3 | 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. |
| ECC802.4 | Students will be able to give details of sensor network architecture, traffic related protocols , transmission technology etc |
| ECC802.5 | Students will be able to calculate the coverage of 2G 3G cellular system |
| ECC802.6 | 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 | ECCDL8044 | | |
| Faculty Name: | Poonam Chakraborty | | |
| Year | 4 | Sem | VIII |

| CO Number | Course Outcome |
|--------------------|--|
| ECCDL8044.1 | The students will be able to define the fundamental principles and technical underlying standards in : Telecommunication, Networking and Information Technologies. |
| ECCDL8044.2 | The students will be able to explain Communications Network Management Systems and their strengths and limitations. |
| ECCDL8044.3 | The students will be able to model networked informative systems and continuously improve their technological knowledge and communication skills. |
| ECCDL8044.4 | The students will be able to analyze operation and management of modern data communications networks. |
| ECCDL8044.5 | 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. |
| ECCDL8044.6 | The students will be able to propose the design of Network management model based on the case study. |

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|----------------------|----------------------|------------|------|
| Course Name: | RF Design Lab | | |
| Course Code | ECL801 | | |
| Faculty Name: | Ms. Freda C. | | |
| Year | 4 | Sem | VIII |

| CO Number | Course Outcome |
|------------------|---|
| ECL801.1 | Student will be able to explain concepts related to design of RF filter, Amplifier. |
| ECL801.2 | Student will be able to use stability, gain, noise circle equations,etc to design of RF filter,Oscillators, Amplifier. |
| ECL801.3 | Students will be able to apply their theoretical knowledge and demonstrate proficiency to operate various instruments like directional coupler, VNA and software like GENESYS |
| ECL801.4 | Student will be able to analyse performance of devices using S parameters to with respect to certain defined specifications. |
| ECL801.5 | Students will be able to investigate and Assess current state of research on a topic and also Determine methodologies used in past studies of the same or similar topics |
| ECL801.6 | Students will be able to design/simulate and evaluate the behaviour of microwave circuits |

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| Course Name: | WN-LAB | | |
| Course Code | ECL802 | | |
| Faculty Name: | Ms. Aparna T. | | |
| Year | 4 | Sem | VIII |

| CO Number | Course Outcome |
|------------------|--|
| ECL802.1 | Students will able to identify various hardware and software components required in the wireless networks. |
| ECL802.2 | Students will able to demonstrate the configuration of WLAN, WPAN using packet Tracer |
| ECL802.3 | Students will able to calculate the Qos parameter of wireless sensor network |
| ECL802.4 | Students will able to apply uplink and downlink budget analysis for GSM, CDMA, WCDMA and HSPA Technologies |
| ECL802.5 | Students will be able to create wired and wireless scenario using ns2 simulation |
| ECL802.6 | Students will be able to design/write a report on a practical application on wireless network. |

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| Course Name: | NMT-LAB | | |
| Course Code | ECLDLO 8044 | | |
| Faculty Name: | Ms Poonam C | | |
| Year | 4 | Sem | VIII |

| CO Number | Course Outcome |
|----------------------|---|
| ECLDLO 8044.1 | The students will be able to understand the basic tools used for network management, learn some softwares like CISCO Packet Tracer, Networking tools and commands |
| ECLDLO 8044.2 | The students will be able to experiments with basic network status monitoring tools using Linux commands and Packet Sniffer software or command line tools. |
| ECLDLO 8044.3 | The students will be able to build various network using Packet Tracer |
| ECLDLO 8044.4 | The students will be able to examine the various network behavior for the built network. |
| ECLDLO 8044.5 | The students will be able to evaluate various performance parameters from the built network. |
| ECLDLO 8044.6 | The students will be able to propose the Management software or network management tool required for doing the specific task in an organization. |

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|----------------------|-------------------------|------------|------|
| Course Name: | PROJECT STAGE-II | | |
| Course Code | ETP801 | | |
| Faculty Name: | Ms. Freda C. | | |
| Year | 4 | Sem | VIII |

| CO Number | Course Outcome |
|------------------|---|
| ETP801.1 | Students will be able to convert the design into a Product/Model/Prototype and validate the results. |
| ETP801.2 | Students will be able to execute the project plan by working as a team to meet deadlines by maintaining ethics and professional responsibilities. |
| ETP801.3 | Students will be able to present their work effectively through technical presentations, conference/journal publications and technical reports following ethical practices. |