Id	Program	CourseCode	CourseName	COCode	CO
1915	Electrical Engineering	5EE04	Signal and System	CO6	Analyze the presentation of discrete fourier transform and fast Fourier transform.
1915	Electrical Engineering	3EE01	Mathematics-III	CO1	Understand the ordinary differential equation method of variation of parameters.
1915	Electrical Engineering	6EE01	Electrical Power-I	CO4	Understand classification of buses, network modelling.
1915	Electrical Engineering	5EE04	Signal and System	CO4	Describe the sampling and it's effect on a continuous time signal
1915	Electrical Engineering	6EE01	Electrical Power-I	CO3	Understand various methods of voltage control and power factor improvement.
1915	Electrical Engineering	5EE04	Signal and System	CO3	Understand Analysis of LTI Discrete-Time Systems
1915	Electrical Engineering	5EE04	Signal and System	CO2	Understand Fourier series and Fourier transform.
1915	Electrical Engineering	5EE03	Electrical Machine-II	CO4	Impart the knowledge on constructional details, principle of operation, performance of 3 phase induction motor.
1915	Electrical Engineering	5EE03	Electrical Machine-II	CO6	Impart the knowledge on constructional details, principle of operation, type of 1 phase induction motor and special machine
1915	Electrical Engineering	5EE04	Signal and System	CO1	Understand the various signal, systems and analyze the continuous time systems in time and frequency domain.
1915	Electrical Engineering	5EE03	Electrical Machine-II	CO5	Compare the different methods of starting and braking of three phase Induction motor
1915	Electrical Engineering	5EE03	Electrical Machine-II	CO2	Impart the knowledge on constructional details, principle of operation of an alternator.
1915	Electrical Engineering	5EE02	Microprocessor and Microcontroller	CO5	Describe the applications of microprocessor.
1915	Electrical Engineering	4EE01	Electrical Machine-I	CO 5	To Analyze construction, principles of operation, testing and application of three phase transformer
1915	Electrical Engineering	5EE03	Electrical Machine-II	CO3	Acquire knowledge about working, testing, applications and torque equation of synchronous machines
1915	Electrical Engineering	4EE01	Electrical Machine-I	CO 6	To Analyze the various conversion,connections and its application of transformer.
1915	Electrical Engineering	5EE02	Microprocessor and Microcontroller	CO3	Summarize the interfacing of the peripherals devices with microprocessor.
1915	Electrical Engineering	5EE02	Microprocessor and Microcontroller	CO4	Explain the various interfacing devices of multitasking of the processor.and introduction to architecture of 8086
1915	Electrical Engineering	5EE02	Microprocessor and Microcontroller	CO6	Illustrate the architecture of microcontroller 8051
1915	Electrical Engineering	4EE01	Electrical Machine-I	CO 3	To Analyze data for qualitative and quantitative parameters to determine characteristics of dc machines.
1915	Electrical Engineering	6EE01	Electrical Power-I	CO2	Understand characteristics of transmission Line such as short medium and long transmission line and effect on transmission line.

1915	Electrical Engineering	4EE01	Electrical Machine-I	CO 4	To Understand Auto-transformer concept & testing of transformers.
1915	Electrical Engineering	5EE03	Electrical Machine-II	CO1	Impart the knowledge on fundamental of AC rotating machine.
1915	Electrical Engineering	5EE02	Microprocessor and Microcontroller	CO1	Explain Architecture of 8085 and their Adderasing modes and instruction set of 8085.
1915	Electrical Engineering	5EE02	Microprocessor and Microcontroller	CO2	Execute an arithmetic and logical programs.and assembly language programming of 8085
1915	Electrical Engineering	6EE01	Electrical Power-I	CO1	Understand transmission line parameters and their calculations also know various effects.
1915	Electrical Engineering	5EE01	Control System -I	CO5	Analyze about frequency response methods of control system like Bode plot, Polar plot.
1915	Electrical Engineering	5EE01	Control System -I	CO6	Analyze stability analysis from frequency response with the help of Bode plot and Nyquist plots.
1915	Electrical Engineering	5EE01	Control System -I	CO4	Analyze of stability & it's criteria's also to plot root locus of given control system.
1915	Electrical Engineering	5EE01	Control System -I	CO3	Understand control system of first order and second order and time response analysis of such system.
1915	Electrical Engineering	4EE01	Electrical Machine-I	CO 2	To understand the various armatures winding used in D.C. machines and also understand the various methods of commutation.
1915	Electrical Engineering	4EE01	Electrical Machine-I	CO 1	To Understand constructional details of dc electrical machines.
1915	Electrical Engineering	5EE01	Control System -I	CO2	Analyze about control system components like motors synchro devices etc. their application and analysis.
1915	Electrical Engineering	5EE01	Control System -I	CO1	Understand the basics of control system and present physical system in mathematical form.
1915	Electrical Engineering	4EE03	Analogue Digital Circuits	CO 1	To Uderstand the characteristics of IC component IC, parameters of IC and understand functionality of IC 741as an op-amp and its parameter.
1915	Electrical Engineering	5EE06	Communication Skills	CO6	Read and write technical efforts, proposals, research papers scientifically.
1915	Electrical Engineering	5EE06	Communication Skills	CO3	Discuss ways of effectively speaking, public speaking.
1915	Electrical Engineering	7EE01	Control System-II	CO2	Analyze state space variables, canonical forms and calculation of State Transition Matrices (STM).
1915	Electrical Engineering	5EE06	Communication Skills	CO4	Present and speak effectively in public.
1915	Electrical Engineering	5EE06	Communication Skills	CO5	Face job interviews and group discussions,
1915	Electrical Engineering	4EE02	Electromagnetic Theory	CO 4	To Analyze and recognize the basic laws of magnetic fields.
1915	Electrical Engineering	7EE01	Control System-II	CO1	Understand the classical design of various compensation networks.

1915	Electrical Engineering	4EE02	Electromagnetic Theory	CO 5	To Analyze and evaluate magnetic fields in materials.
1915	Electrical Engineering	5EE06	Communication Skills	CO1	Understand basic concepts of communication and its barriers.
1915	Electrical Engineering	6EE01	Electrical Power-I	CO6	Understand construction of cables, their types, rating, testing and grading.
1915	Electrical Engineering	5EE06	Communication Skills	CO2	Become an active listener.
1915	Electrical Engineering	4EE02	Electromagnetic Theory	CO 6	To Understand Maxwell equations and wave equations.
1915	Electrical Engineering	5EE05	Elective - Consumer Electronics	CO6	Understand about electronic ignition systems, electronic ignition locks system, Antilock Braking System (ABS).
1915	Electrical Engineering	5EE05	Elective - Consumer Electronics	CO5	Understand the power supply and other systems SMPS, UPS and Preventive Maintenance,Set Top Boxes.
1915	Electrical Engineering	5EE05	Elective - Consumer Electronics	CO4	Understand the recording and reproduction systems.
1915	Electrical Engineering	4EE02	Electromagnetic Theory	CO 2	To Understand Electrostatics and its fields in dielectrics.
1915	Electrical Engineering	5EE04	Signal and System	CO5	Analyze CT and DT systems using Z -Transforms.
1915	Electrical Engineering	4EE02	Electromagnetic Theory	CO 1	To Understand Review of Vector Analysis
1915	Electrical Engineering	5EE05	Elective - Consumer Electronics	CO3	Impart the knowledge about domestic appliances like Washing machines, Microwave ovens, Air- conditioners and Refrigerators and Computers Office Systems
1915	Electrical Engineering	6EE01	Electrical Power-I	CO5	Understand various components of power system such as Insulators, line supports and their testing.
1915	Electrical Engineering	5EE05	Elective - Consumer Electronics	CO2	Describe the various video systems and displays such as Colour TV standards, Video Telephone and Video Conferencing
1915	Electrical Engineering	5EE05	Elective - Consumer Electronics	CO1	Understand the various audio systems like Microphones, Loudspeakers, and sound systems
1915	Electrical Engineering	7EE01	Control System-II	CO4	Represent Z transform and analysis & Calculation in numerical forms of Z transform Z transform and analysis & Calculation in numerical forms of Z transform
1915	Electrical Engineering	6EE02	Optimisation Techniques	CO4	Analyse non-linearity's that occurs in the real world problems and to evaluate non-linear programming mathematical model.
1915	Electrical Engineering	4EE04	Mathematics-IV	CO 1	To Understand analytic function, harmonic function, mapping by elementary functions and bilinear transformation.
1915	Electrical Engineering	3EE02	Network Analysis	CO3	Understand the various combinations of RC circuits, understand the steady state and sinusoidal steady state-frequency response of circuits.
1915	Electrical Engineering	6EE02	Optimisation Techniques	CO5	Understand significance of PERT and CPM techniques and to estimates network diagrams.

1915	Electrical Engineering	4EE04	Mathematics-IV	CO 2	To Analyze the concept of singular points, Taylor series, Laurent's series, Cauchy integral and Cauchy Residue theorem problems.
1915	Electrical Engineering	4EE02	Electromagnetic Theory	CO 3	To Understand and evaluate electrostatics fields in dielectrics.
1915	Electrical Engineering	3EE02	Network Analysis	CO2	Understand the various network theorems and understand of source transformations.
1915	Electrical Engineering	6EE02	Optimisation Techniques	CO3	Understand complex linear programming mathematical model and to evaluate.
1915	Electrical Engineering	4EE03	Analogue Digital Circuits	CO 6	To Understand various Sequential digital circuits in Electronics.
1915	Electrical Engineering	6EE02	Optimisation Techniques	CO1	Understand Introduction and application of optimization techniques.
1915	Electrical Engineering	3EE02	Network Analysis	CO1	Understand the V-I characteristics of inductance and capacitance, also understand basic nodal and mesh analysis
1915	Electrical Engineering	4EE03	Analogue Digital Circuits	CO 2	To Analyse IC741op-amp for various electronics circuits. And linear and non linear application of Op-Amp
1915	Electrical Engineering	4EE03	Analogue Digital Circuits	CO 3	To Analyze IC 723 and its applications and understand IC 555 and its applications.
1915	Electrical Engineering	6EE02	Optimisation Techniques	CO2	Understand linear relationship among the real world optimization problem and to calculate optimal solution by conventional linear methods of optimization.
1915	Electrical Engineering	7EE01	Control System-II	CO3	Understand system controllability and observe ability by various tests.
1915	Electrical Engineering	4EE03	Analogue Digital Circuits	CO 4	To Analyse CMOS, NMOS, PMOS transistor design and their used for designing various logic gates and understand concEEt of logic families.
1915	Electrical Engineering	4EE03	Analogue Digital Circuits	CO 5	To Understand various Combinational digital circuits in Electronics.
1915	Electrical Engineering	6EE05	Elective - Non Conventional Energy System	CO1	Understand renewable and non renewable energy source describe concept about solar radiation system.
1915	Electrical Engineering	4EE05	Numerical Methods and Computer Programming	CO 4	To analyse the numerical integration by using appropriate Numerical integration method derived on the basis of a parabola or polynomial over small sized intervals and implementation of these integration methods in c-programming.
1915	Electrical Engineering	6EE05	Elective - Non Conventional Energy System	CO2	Understand the knowledge about Reflection and absorption of radiation and Solar Energy collections, Introduction to various systems of concentrating collectors.
1915	Electrical Engineering	6EE03	Power Electronics	CO3	Understand the design and control of rectifiers.
1915	Electrical Engineering	6EE06	Electrical Energy Utilisation	CO5	Understand general features, types, characteristics of locomotive motor for overhead equipment's.
1915	Electrical Engineering	6EE06	Electrical Energy Utilisation	CO6	Understand lighting calculations for factory, flood and street. Also Various methods of heating and welding furnaces.

1915	Electrical Engineering	7EE02	Power System Operation & Control	CO6	Understand two Area system and Steady-State Instabilities,pss.
1915	Electrical Engineering	4EE05	Numerical Methods and Computer Programming	CO 3	To Understand the interpolation by using proper Interpolation techniques based on finite difference to obtain the intermediate value in the given data and implementation of these Interpolation techniques in c-programming.
1915	Electrical Engineering	6EE06	Electrical Energy Utilisation	CO4	Understand traction system, its energy consumption and calculations.
1915	Electrical Engineering	7EE02	Power System Operation & Control	CO5	Understand Control Area, Pool operation; Tie-line Modeling, Tie-line bias control, and Static and Dynamic response of ALFC loop.
1915	Electrical Engineering	4EE05	Numerical Methods and Computer Programming	CO 2	To Understand the system of linear equations using suitable Numerical method to obtain the solution of system of linear equations and implementation of these methods in c-programming.
1915	Electrical Engineering	6EE03	Power Electronics	CO1	Understand the basics of power electronic devices.
1915	Electrical Engineering	4EE04	Mathematics-IV	CO 5	To Analyze various types of probability, probability distribution and problems depends on it.
1915	Electrical Engineering	7EE02	Power System Operation & Control	CO2	Analyze the Transmission loss, significance of penalty factor & ALD.
1915	Electrical Engineering	4EE04	Mathematics-IV	CO 6	To Understand curve fitting by method of least squares, solution of differential equation by matrix method and Peano Baker method.
1915	Electrical Engineering	7EE02	Power System Operation & Control	CO3	Undestant the knowledge of automatic generation control and automatic voltage regulation.
1915	Electrical Engineering	6EE06	Electrical Energy Utilisation	CO1	Understand introduction of subject and concept of electrical drive.
1915	Electrical Engineering	6EE03	Power Electronics	CO2	Analyze the characteristics of SCR, BJT, MOSFET and IGBT.
1915	Electrical Engineering	6EE06	Electrical Energy Utilisation	CO2	Understand different duties and test on induction motor.
1915	Electrical Engineering	7EE02	Power System Operation & Control	CO4	Understand Automatic Load Frequency Control & Transfer function modeling.
1915	Electrical Engineering	4EE05	Numerical Methods and Computer Programming	CO 1	To analyse the polynomial and transcendental equations using appropriate Numerical method to obtain the root of the equations and implementation of these methods by using c - programming
1915	Electrical Engineering	6EE06	Electrical Energy Utilisation	CO3	Understand different characteristics of electrical motor like dc motor, single and three phase induction motor etc
1915	Electrical Engineering	7EE02	Power System Operation & Control	CO1	Understand Economic operation of power system and importance of LFC, UCP control & performance curve.
1915	Electrical Engineering	4EE04	Mathematics-IV	CO 4	To Analyze solution of Legendre's equations, Bessel's equations by Frobensious method, Legendre's polynomials and orthogonal properties.

1915	Electrical Engineering	7EE01	Control System-II	CO5	Identify & aanalysis the nonlinear system and various characteristics of nonlinear system. & aanalysis the nonlinear system and various characteristics of nonlinear system.
1915	Electrical Engineering	3EE02	Network Analysis	CO4	Understand the Laplace transform, functions shifting theorem and final value theorems.
1915	Electrical Engineering	7EE01	Control System-II	CO6	Analyze singular points, typical nonlinearities and their Various nature.
1915	Electrical Engineering	4EE04	Mathematics-IV	CO 3	To Analyze partial differential equation of first order and first degree also Lagrange's form and Clarinet's form.
1915	Electrical Engineering	3EE02	Network Analysis	CO5	Understand the sinusoidal steady state and Fourier series representation of non-sinusoidal periodic waveforms.
1915	Electrical Engineering	6EE02	Optimisation Techniques	CO6	Understand real world multistage decision problems and to define solution through dynamic programming methods.
1915	Electrical Engineering	3EE02	Network Analysis	CO6	Learn the characteristics of sinusoidal steady state and fourier series
1915	Electrical Engineering	3EE02	Network Analysis	CO7	Write down the characteristics of sinusoidal steady state and fourier series
1915	Electrical Engineering	8EE01	Power System Stability	CO2	Understand the steady state stability of two machine system, multi machine system, and transmission lines with various parameters.
1915	Electrical Engineering	7EE04	Switchgear and Protection	CO1	Understand the basic components of a protection system and the main function of each.
1915	Electrical Engineering	3EE03	Electrical Resources and Generation	CO6	Understand various Resources like Ocean, Tidal, Biomass, Biogas, MHD etc. used for Power Generation
1915	Electrical Engineering	8EE01	Power System Stability	CO1	Understand the basic Concept of stability, types of stability and various time constants.
1915	Electrical Engineering	3EE03	Electrical Resources and Generation	CO5	Understand chemistry applied to fuel cells and wind energy
1915	Electrical Engineering	8EE02	High Voltage Engineering	CO6	Understand various types of the excitation system
1915	Electrical Engineering	8EE02	High Voltage Engineering	CO5	Understand different methods of high voltage, current and capacitance measurement..
1915	Electrical Engineering	8EE02	High Voltage Engineering	CO2	Understand breakdown mechanisms in solid, liquids & composite dielectrics.
1915	Electrical Engineering	8EE02	High Voltage Engineering	CO3	Understand lightning and switching overvoltage phenomenon and protection against them.
1915	Electrical Engineering	3EE03	Electrical Resources and Generation	CO4	Understand basic Solar Energy and Its measurement
1915	Electrical Engineering	8EE02	High Voltage Engineering	CO4	Understand high voltage and current generation techniques.
1915	Electrical Engineering	8EE02	High Voltage Engineering	CO1	Understand breakdown mechanisms in gases & theory related to it.

1915	Electrical Engineering	8EE03	Digital Signal Processing	CO5	Understand and analyze different types of analog and digital filters.
1915	Electrical Engineering	3EE03	Electrical Resources and Generation	CO2	Understand and describe the knowledge of thermal and hydro power plant.
1915	Electrical Engineering	7EE03	Electrical Power -II	CO6	Understand different types of elements involved in Flexible AC Transmission Systems (FACTS)
1915	Electrical Engineering	8EE03	Digital Signal Processing	CO6	Understand different types of DSP processor and its applications
1915	Electrical Engineering	3EE03	Electrical Resources and Generation	CO3	Understand Nuclear power plant and Diesel Electric power plant
1915	Electrical Engineering	8EE03	Digital Signal Processing	CO4	Understand FIR and IIR filters by hand to meet specific magnitude and phase requirements.
1915	Electrical Engineering	8EE03	Digital Signal Processing	CO1	Understand different Continuous and discrete time signals and systems.
1915	Electrical Engineering	3EE03	Electrical Resources and Generation	CO1	Understand the factors to be considered in site selection for different power plants.
1915	Electrical Engineering	8EE03	Digital Signal Processing	CO3	Understand sampling of band pass filter of A/D,D/A converter analysis.
1915	Electrical Engineering	8EE03	Digital Signal Processing	CO2	Understand Discrete Fourier Transform, Fast Fourier Transform (FFT) algorithms for faster realization of signals and systems.
1915	Electrical Engineering	7EE03	Electrical Power -II	CO5	Undestand different elements and its working in HVDC Transmission system.
1915	Electrical Engineering	8EE04	Elective - Power Quality	CO4	Analyze the different power quality solutions along with the illustration of different equipment.
1915	Electrical Engineering	7EE03	Electrical Power -II	CO4	Understand effects and protection techniques for overvoltage’s in power system.
1915	Electrical Engineering	8EE04	Elective - Power Quality	CO6	Understand the power quality measurement tools and interpret all the things related to power quality surveys.
1915	Electrical Engineering	8EE04	Elective - Power Quality	CO5	Understand wiring and grounding principles along with installation and the problems related to it.
1915	Electrical Engineering	6EE05	Elective - Non Conventional Energy System	CO3	Understand the solar energy utilization and radiation transmission through covers.
1915	Electrical Engineering	4EE05	Numerical Methods and Computer Programming	CO 5	To analyse and implement the ordinary differential equations using suitable numerical method in c programming.
1915	Electrical Engineering	7EE03	Electrical Power -II	CO2	Analyze symmetrical faults on transmission line and to perform the short circuit fault calculations.
1915	Electrical Engineering	6EE03	Power Electronics	CO5	Understand different types of chopper circuits.
1915	Electrical Engineering	8EE04	Elective - Power Quality	CO1	Understand the Power quality problems need of it in relation to present power system.
1915	Electrical Engineering	8EE04	Elective - Power Quality	CO2	Understand different power quality problems with analysis of causes, effects and solutions.

1915	Electrical Engineering	6EE03	Power Electronics	CO6	Understand speed control techniques of various motor.
1915	Electrical Engineering	8EE04	Elective - Power Quality	CO3	Understand different power quality standards & predict the purpose & process of designing it
1915	Electrical Engineering	7EE03	Electrical Power -II	CO3	Understand and analyze different types of unsymmetrical faults using symmetrical components.
1915	Electrical Engineering	6EE05	Elective - Non Conventional Energy System	CO4	Understand the energy from ocean and wind.
1915	Electrical Engineering	6EE03	Power Electronics	CO4	Understand the design and control of inverters.
1915	Electrical Engineering	7EE03	Electrical Power -II	CO1	Understand the basic ideas about symmetrical and unsymmetrical fault analysis.
1915	Electrical Engineering	6EE05	Elective - Non Conventional Energy System	CO5	Understand the various biomass energy resources.
1915	Electrical Engineering	6EE05	Elective - Non Conventional Energy System	CO6	Understand the photo voltaic cells and geothermal energy resources.
1915	Electrical Engineering	4EE05	Numerical Methods and Computer Programming	CO 6	To Understand the basic concept and techniques of the Object Oriented Programming and develop programming skills using Object Oriented Programming concept.
1915	Electrical Engineering	3EE01	Mathematics-III	CO2	Understand the properties of Partial differential equations
1915	Electrical Engineering	3EE01	Mathematics-III	CO3	Understand the principle of Laplace transformation, Fourier transformation & Z-transformation in day to day life.
1915	Electrical Engineering	3EE01	Mathematics-III	CO4	Understand the vector calculus, curves in space
1915	Electrical Engineering	3EE01	Mathematics-III	CO5	Understand line, Surface & volume integrals, Stokes & Divergence theorem.
1915	Electrical Engineering	3EE05	Electrical Measurement and Instrumentation	CO6	Understand the working and applications the transducers especially related to pressure and temperature
1915	Electrical Engineering	3EE05	Electrical Measurement and Instrumentation	CO2	Understand the different types of current, voltage, power and energy measuring instruments and theorems related to it.
1915	Electrical Engineering	3EE05	Electrical Measurement and Instrumentation	CO3	Understand the special measuring instruments and instruments transformers along with the applicability of all.
1915	Electrical Engineering	3EE05	Electrical Measurement and Instrumentation	CO4	Understand and learn the techniques to measure the different circuit parameters.
1915	Electrical Engineering	3EE05	Electrical Measurement and Instrumentation	CO1	Understand the fundamental concepts and working principles of the different types of measuring instrument like Moving Iron , PMMC, Electrodynamics, Electrostatic.
1915	Electrical Engineering	3EE04	Electronics Devices and Circuits	CO6	Understand the types, characteristics, working and parameters of FETs and to use them for various applications

1915	Electrical Engineering	7EE05	Elective - Computer Methods In Power System Analysis	CO4	Understand power system, and power system components into mathematical model & in numerical methods.
1915	Electrical Engineering	3EE04	Electronics Devices and Circuits	CO3	Understand the different types of transistor amplifier circuits.
1915	Electrical Engineering	6EE04	Computer Aided Machine Design	CO4	Understand the stator circuit of Induction motor.
1915	Electrical Engineering	7EE04	Switchgear and Protection	CO6	Understand the generator and motor protection schemes
1915	Electrical Engineering	8EE01	Power System Stability	CO5	Understand impact of different actions on transient stability.
1915	Electrical Engineering	7EE05	Elective - Computer Methods In Power System Analysis	CO6	Understand & evaluate mathematical model for multimachine system stability and solve for state equation by modified Euler and Runge Kutta fourth order.
1915	Electrical Engineering	8EE01	Power System Stability	CO6	Understand various types of the excitation system
1915	Electrical Engineering	6EE04	Computer Aided Machine Design	CO5	Understand the rotor circuit of Induction motor
1915	Electrical Engineering	3EE04	Electronics Devices and Circuits	CO4	Understand the different types of amplifier circuits and calculation of different parameters
1915	Electrical Engineering	6EE04	Computer Aided Machine Design	CO6	Understand the parameter of Induction motor and to determine its effects on performance.
1915	Electrical Engineering	3EE04	Electronics Devices and Circuits	CO5	Understand the theory, construction and applications of different types of Diodes.
1915	Electrical Engineering	7EE04	Switchgear and Protection	CO5	Understand the transformer and busbar protection schemes.
1915	Electrical Engineering	8EE01	Power System Stability	CO3	Understand impact of various effects on steady state stability.
1915	Electrical Engineering	7EE05	Elective - Computer Methods In Power System Analysis	CO5	Understand load flow problem using different techniques.
1915	Electrical Engineering	8EE01	Power System Stability	CO4	Understand& analyze transient state stability using equal area criterion, swing equation and point by point Solution.
1915	Electrical Engineering	7EE04	Switchgear and Protection	CO4	Understand the over current and the distance protection schemes for transmission lines.
1915	Electrical Engineering	3EE04	Electronics Devices and Circuits	CO2	Understand the basic characteristics of BJT, methods of biasing, stability factor and compensation techniques.
1915	Electrical Engineering	6EE04	Computer Aided Machine Design	CO3	Understand the thermal circuit of transformer and to analyze its performance.
1915	Electrical Engineering	7EE05	Elective - Computer Methods In Power System Analysis	CO3	Understand bus impedances and admittances matrices by algorithm.
1915	Electrical Engineering	6EE04	Computer Aided Machine Design	CO2	Understand the magnetic circuit of transformer and to analyze its performance.

1915	Electrical Engineering	7EE05	Elective - Computer Methods In Power System Analysis	CO2	Understand & moderate the oriented graph from single line diagram and different matrices also they will be able to form Singular and Non singular transformation of network matrices.
1915	Electrical Engineering	6EE04	Computer Aided Machine Design	CO1	Understand the basics of power electronic devices
1915	Electrical Engineering	7EE04	Switchgear and Protection	CO3	Understand the main types of the Electromagnetic and static relays, with the merits and demerits of each type.
1915	Electrical Engineering	3EE04	Electronics Devices and Circuits	CO1	Understand the working of PN junction diode and different types of Rectifiers.
1915	Electrical Engineering	7EE05	Elective - Computer Methods In Power System Analysis	CO1	Understand & descript short circuit understand by three phase symmetrical components and calculate balanced three phase networks using bus impedance matrix.
1915	Electrical Engineering	7EE04	Switchgear and Protection	CO2	Understand the main types of CB's and the preferred application for each type and analyze the difficulties in circuit breakers while interrupting fault current.
1915	Electrical Engineering	3EE05	Electrical Measurement and Instrumentation	CO5	Understand the basics of the transducers and its applicability and ultimately have the knowledge of generalized measurement system