Methodist College of Engineering and Technology

Department of Electrical and Electronics Engineering

Course Outcomes

AY: 2018-19 **III Semester**

Course Code	Course Name	Course Outcomes	Taxonomy
PC301EE	ELECTRICAL CIRCUITS-I	**Understand** network analysis, techniques using mesh and nodeanalysis	Understand
		Evaluate steady state and transient behavior of network for AC excitations.	Evaluate
		Analyze electric circuits using network theorems	Analyze
		Understand the concept of coupled circuits and poly-phasecircuits	Understand
		Analyze the transient behaviour of electrical networks for various excitations	Analyze
		Discuss a.c and d.c. theorems, Elaborate steady state and transient analysis of single phase and 3-phase circuits	Create
PC302EE	ELECTROMAGNETIC FIELDS	**Understand** the vector calculus for electromagnetism.	Understand
		Apply the electric fields for simple configurations under staticconditions	Apply
		Analyze and apply the static magneticfields.	Analyze
		Analyze the Electrical Circuits with the concept of Network topology	Analyze
		Understand Maxwell's equation in different forms and differentmedia	Understand
		Understand the propagation of EMwave	Understand

PC303EE	DIGITAL ELECTRONICS LOGIC DESIGN	**Understand** and apply the Boolean algebra, including CMOS gates and arithmetic circuits.	Understand
		Apply combinational digital circuits for logic functions	Apply
		Use the concepts of Boolean Algebra for the analysis	Analyze
		Design various A/D and D/A converters	Create
		Design various logic gates starting from simple ordinary gates to complex programmable logic devices & arrays.	Create
		Design of sequential logic circuits	Create
BS301MT	MATHEMATICS-III	**Find** solutions of first order and second order partial differential equations.	Remember
		Apply Fourier series to find solutions of partial differential equations.	Apply
		Analyze a given function in the form of Fourier series	Analyze
		Solve functions of complex variables using Cauchy Reimann equations and Cauchy Integral Theorem	Apply
		Determine the analyticity of a complex functions and expand functions as Taylor and Laurent series.	Evaluate
		Evaluate real integrals using concept of residues, poles and residue theorem .	Evaluate
ES323ME	PRIME MOVERS AND PUMPS	**Understand** the fundamental aspects of fluid mechanics and thermal sciences	Understand
		Understand the basic types of hydraulic turbines, boilers, gas turbines and steam turbines their components, operation and their rated and off design performance characteristics	Understand
		Analyze the working principle of reciprocating pumps, centrifugal pumps, their performance over wide range of operations	Analyze
		Evaluate the efficiency, work done and power consumption of various types of Hydraulic turbines and pumps	Evaluate
		Evaluate the efficiency, heats input in boiler	Evaluate

		and work done of various types of steam turbines.	
		Evaluate the efficiency, heats input in Combustion Chamber and work done of various types of gas turbines.	Evaluate
MC916CE	ENVIRONMENT SCIENCES	**Synthesize** popular media reports/articles discussing environmental issues, and verbally discuss and defend their positions on scientific issues	Create
		List common and adverse human impacts on biotic communities, soil, water, and air quality and suggest sustainable strategies to mitigate these impacts	Remember
		Apply mathematical concepts, including statistical methods, to field and laboratory data to study scientific phenomena.	Apply
		Design and execute a scientific project.	Create
		Understand the importance of Environmental legislation policies.	Understand
		Categorize the types of environmental pollution and the various treatment technologies for the diminution of environmental pollutants and contaminants.	Analyse
ES361ME	MECHANICAL ENGINEERING LAB	**Understand** the working principles of Engines	Understand
		Determine the power developed and efficiencies of engines	Apply
		Determine the flash and fire points of a fuel.	Apply
		Determine the efficiencies of various pumps and turbines	Apply
		Understand the viscosity of various oils	Understand
		Understand valve timing and port timing diagrams	Understand
ES362 EC	ELECTRONIC ENGINEERING	**Calculate** ripple factor, efficiency and % regulation of rectifier circuits	Apply
		Draw Characteristics of different diodes	Create
		Draw single and multistage amplifier circuits	Create
		Analyze feedback amplifiers and BJT oscillator circuits	understand
		Understand negative and positive feedback circuits	understand
		Design single, multi-stage, wave shaping and power amplifier circuits	Evaluate

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Methodist College of Engineering and Technology

Department of Electrical and Electronics Engineering

Course Outcomes

AY: 2018-19 **V Semester**

Course Code	Course Name	Course Outcomes	Taxonomy
PC502EE	ELECTICAL MACHINES-II	**Summarize** the construction, working principle and performance of Transformers, 1-phase and 3-phase Induction Motors	Understand
		Determine the construction, working principle, performance, starting and speed control of 1-phase and 3-phase Induction Motors.	Evaluate
		Identify the construction, working principle and performance of Transformers and Induction motors.	Apply
		Examine the rating, testing and applications of single phase, three phase transformers.	Analyze
		Adapt the knowledge of Rotating magnetic field theory, Double field revolving theory	Create
		Find the equivalent circuit diagram of transformer, three-phase induction motor and single-phase induction motor	Remember
PC503EE	FACTS DEVICES	**Outline** the concepts of FACTS devices , types of FACTS devices	Understand
		Compare between Shunt and series and Current and Voltage source controllers	Understand
		Develop the understanding of suitability of the controllers in power systems.	Apply

		Compare the reactive power compensation between static shunt and static series compensators	Analyze
		Survey the range of static shunt , static series and Combined compensators	Analyze
		Illustrate the application of FACTS devices	Understand
PC501EE	POWER SYSTEMS-II	**Classify** the transmission lines and discuss the performance of short, medium and long transmission lines.	Create
		Define the occurrence of corona, corona losses and the methods to minimize corona losses in the transmission. lines	create
		Choose per unit values and apply for the analysis of symmetrical fault calculations.	Apply
		Classify and measure the different types of faults occurring on overhead transmission lines and calculate fault currents.	Evaluate
		Elaborate the reasons for the voltage variations, and Improve the voltage at the receiving end side.	Create
		Explain the causes of over voltages, natural impedances of different junction of lines and Develop methods to reduce transients in transmission lines.	Apply
PC505EE	ELECTRICAL MEASUREMENTS & INSTRUMENTATION	**Understand** different types of measuring instruments of voltage, current, Power factor, power, energy and magnetic measurements.	Understand
		Understand different types of measuring instruments of their construction, operation and Characteristics	Understand
		Identify the instruments suitable for typical measurements	Understand
		Apply the knowledge about transducers and instrument transformers to use them effectively.	Apply
		Develop an understanding of construction and working of different AC and DC bridges and its applications	Evaluate

		Identify the instruments suitable for typical measurements	Understand
PC504EE	LINEAR CONTROL SYSTEMS	**Understand** the concept of the terms control systems, feedback, Mathematical modeling of Electrical and Mechanical systems.	Understand
		Explain the time domain and frequency response analysis of control systems.	Evaluate
		Apply the knowledge of various analytical techniques used to determine the stability of control systems.	Apply
		Understand the importance of design of compensators	Create
		Demonstrate controllability and observability of modern control systems.	Understand
		Understand and develop the state space representation of control systems.	Apply
PC505EE	DIGITAL SINGAL PROCESSING & APPLICATIONS	**Classify** discrete-time signals and discrete-time systems and determine the response of discrete-time system to a given input.	Understand
		Solve the frequency response of the discrete-time system by applying z-transform to the systems	Apply
		Determine the Discrete-Time Fourier Transform of discrete-time systems	Evaluate
		Find the Discrete Fourier Series coefficients of discrete-time signals and represent discrete-time systems in terms of Discrete Fourier Series coefficients	Remember
		Modify the method of evaluating the Discrete Fourier Transform of discrete-time signals by using Fast Fourier Transform, thereby reducing the computational efforts	Create
		Analyze the characteristics of digital Finite Impulse Response (FIR) filters and digital Finite Impulse Response (FIR) filters and design digital Finite Impulse Response (FIR) filters and digital Infinite Impulse Response (IIR) filters	Analyze

PC553EE	CIRCUITS & MEASUREMENTS LAB	**Examine** the KCL, KVL theorems for a given circuit theoretically and practically	Analyze
		Simplify the complicated circuits using Thevenin's, Norton's and Superposition theorems.	Analyze
		Formulate the current and voltage equations for two port networks.	Create
		Estimate the resistance, inductance and capacitance using various bridges.	Create
		Measure the energy, power and power factor of the given circuits using wattmeter, ammeter and voltmeter	Evaluate
		Make use of CRO for finding out the amplitude, frequency and phase of waveforms	Apply
PC552EE	POWER ELECTRONICS LAB	Classify and **design** different triggering circuits of SCR and MOSFET.	Create
		Analyze different commutation circuits of SCR	Analyze
		Understand and **make use of** controlled rectifiers to control the speed of DC motors	Apply
		Understand the **applications** of cycloconverters and AC voltage controllers	Apply
		Analyze and develop pulses for IGBT based inverters	Analyze
		Design and Simulate different circuits of power electronics using MATLAB software	Create
PC551 EE	ELECTRICAL MACHINES-I LAB	**Apply** and **Conclude** the principles of Electrical Machines through laboratory experimental work.	**Evaluate**
		Construct the circuit to perform experiments, measure, analyze the observed data & come to a conclusion.	**Apply**
		Organize reports based on performed experiments with effective demonstration of diagrams and characteristics /graph	**Apply**
		Demonstrate the starting & speed control of various DC motors	**Understand**
		Determine efficiency & voltage regulation of electrical machines by various test.	**Evaluate**
		Compare the performance characteristics of different electrical machines.	**Analyze**

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Methodist College of Engineering and Technology

Department of Electrical and Electronics Engineering

Course  **Outcomes**

AY:2018-19 **VII Semester**

Course Code	Course Name	Course Outcomes	Taxonomy
PC403EE	ELECTRICAL MACHUNE DESIGN	**Demonstrate** the knowledge of basic conducting, insulating and magnetic materials required for design of rotating electrical machines and Transformers	Understand
		Distinguish the differences in different manufacturing practices of dc and ac machines.	Analyze
		Identify and assess the general overall design parameters of the machines and transformers based on rating name plates.	Apply
		Identify suitable alternatives based on key requirements spelt out in the query.	Apply
		Knowledge about the various types of electrical machines design for ac & dc machines to choose for their applications.	Apply
		Determine the use of computer in CAD / iterative design of electrical machines for optimum performance.	Evaluate
PC401EE	POWER SYSTEM OPERATION AND CONTROL	**Solve** load flow by appropriate modeling of the given power system and formulation of Ybus.	Apply
		Evaluate generation mix for economic operation with and without transmission losses.	Evaluate
		Explain load frequency control and estimate the frequency deviation through modeling.	Understand
		Analyse and describe different types of power system stability and establish SSSL.	Analyse

		Identify various methods of voltage control and study the reactive power compensation.	Apply
		Design the railway steel bridges and bridge bearings.	Create
PE402EE	ELECTRIC DRIVES AND STATIC CONTROL	List different loads and **Illustrate** four quadrant operations ,steady state and transient analysis and to control/modify speed torque characteristics of different DC drives	Understand
		Classify single quadrant, two quadrant, four quadrant operations braking and starting methods of DC drives and Speed control methods of AC and DC drives	Understand
		Make use of static control for DC drives and closed loop operation of DC motors and solve problems on it and understand special motors like BLDC and SRM drives and their applications	Apply
		Make use of Static control for AC drives like Induction and Synchronous motor drives and Construction of different types of Scherbius and Kramer drives for speed and torque control of drives.	Apply
		Analyze different topologies to Power electronic drives (PWM,VFI,CSI) and to Modify Power electronic circuits according to real time applications	Analyze
		Determine the control parameters (with the help of numerical) for DC and AC drives by using Mathematical equations	Evaluate
PC406EE	POWER QUALITY	**Formulate** the network matrices using Graph Theory and Model the power system components.	Apply
		Apply Load flow analysis to an Electrical Power Network and interpret the results of the analysis	Apply
		Analyse different types of Faults in Power System.	Analyse
		Compare Symmetrical and Unsymmetrical Faults in power system.	Analyse
		Identify Steady state and transient state stability analysis in power system.	Understand
		Apply Load flow analysis to an Electrical Power Network and interpret the results of the analysis	Apply
EE431	ELECTRICAL SIMULATION	**Compose (Write)** MATLAB code using some basic commands.	Create
		Develop MATLAB code for analyzing power system network by obtaining line parameters, Z, Y matrices, and	Apply

	LAB	Economics of power systems	
		Simulate the concepts of Electrical Circuits, to **design** a led, lag, led and lag compensator and obtain the characteristics by Control Systems and interpret data.	Create
		Demonstrate (Determine) the knowledge of programming environment, compiling, debugging, linking and executing variety of programs in MATLAB.	Evaluate
		Demonstrate ability to **develop** Simulink models for various electrical systems.	Apply
		Validate simulated results from programs/Simulink **models** with theoretical calculations.	Apply
EE432	MPMC LAB	**Adapt** the knowledge of Architecture of 8086 and 8051, writing assembly language programming for different applications	Create
		Explain types of microcontrollers and their applications	Understand
		Develop programs to run on 8086 microprocessor based systems	Apply
		Define the techniques for faster execution of instructions, improve speed of operations and enhance performance of microprocessors	Remember
		Interpret the difference between Microprocessors and Microcontrollers	Evaluate
		Simplify and design systems using memory chips and peripheral chips for 16-bit 8086 microprocessors	Create
EE433	POWER SYSTEMS LAB	**Interpret** positive, negative and zero sequence Impedance of Transformer and Alternator	Understand
		Analyze the performance of transmission lines	Analyze
		Determine the dielectric strength of oil and the efficiency of string insulators	Evaluate
		Explain Voltage and current relay settings	Understand
		Measure the capacitance of three core cable	Evaluate
		Understand the operation Differential protection of transformer	Understand
EE434	PROJECT SEMINARS	**Demonstrate** the ability to synthesize and apply the knowledge and skills acquired in the academic program to real-world problems	Understand
		Evaluate different solutions based on economic and technical feasibility for the needs of society	Evaluate
		Effectively **communicate the selected technology topics** to	Create

		excel in the career chosen.	
		Demonstrate effective written and oral communication skills	Understand
		Explore the industry practices	Evaluate
		Enhance practical and professional skills.	Evaluate

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METHODIST COLLEGE OF ENGINEERING AND TECHNOLOGY

Department of Electrical and Electronics Engineering

Course Outcomes

AY: 2018-19 IV Semester

Course Code	Course Name	Course Outcomes	Taxonomy
PC401EE	ELECTRICAL CIRCUITS -II	**Apply** Fourier series representation to electrical networks	Apply
		Evaluate of Laplace transform of common time functions and electrical networks	Evaluate
		Explain given electrical circuits in terms of ABCD, Z, Y & h- Parameter model and solve the circuits	Evaluate
		Analyse the Electrical Circuits with the concept of Network topology	Analyze
		Classify different types of network functions	Understand
		Synthesize the RL and RC circuits	Create
PC402EE	ELECTRICAL MACHINES-I	**Identify** different parts of a DC machine & understands its operation	Understand
		Operation of the transformers in the energy conversion process.	Analyze
		Carry out different testing methods to predetermine the efficiency of DC machines	Create
		Understand different excitation and starting methods of DC machines	Evaluate
		Apply different voltage and speed control methods a DC machines	Apply
		Identify different parts of a DC machine & understands its operation	Understand
PC403EE	POWER SYSTEMS-I	**Explain** to the power /Energy demand in the form of graph Base Load and Peak Load	Understand
		Formulate A.C and D.C distribution networks for necessary variable calculation	Create
		Make use of Understand and acquire knowledge about various power generation.	Apply
		Discuss to Ability of various power sources for generation of power Merit/Demerits	Create
		Analyze to Supports sag and tension and String efficiency.	Analyze
		Modeling and calculating of transmission line parameters and power system components for a specified system and application	Analyze

PC404EE	POWER ELECTRONICS	**Identify** and examine different power semiconductor switching devices and to draw its characteristics.	Analyze
		Illustrate the various power switching devices, characteristics and applications.	Understand
		Design different types of power electronic converters, choppers, AC voltage controller and Cyclo-Converter.	Create
		Determine and identify the characteristic points of power electronics devices.	Evaluate
		Find the performance of power electronic devices.	Remember
BS401MT	MATHEMATICS-IV	**Solve** non linear equations, system of linear equations and ordinary differential equations numerically.	Apply
		Evaluate certain types of improper integrals.	Evaluate
		Find Fourier transforms, Fourier Sine,Cosine Transforms, Fourier Integrals of functions	Remember
		Solve problems of F, Z-transforms	Apply
		Apply various probability distributions to solve practical problems, to estimate unknown parameters of populations and apply the tests of hypotheses.	Apply
		Perform a regression analysis and to compute and interpret the coefficient of correlation.	Understand
HS401BM	MANAGERIAL ECONOMICS & ACCOUNTANCY	**Understand** the responsibility of a manager and fundamental concepts of Managerial Economics.	Understand
		Understand demand analysis and determinants of demand.	Understand
		Analyze production & markets and compute the future sales level.	Analyse
		Understand the features, merits, uses & limitations of Pay back , ARR,NPV, PI & IRR methods of capital budgeting.	Understand
		Understand the Principles of accounting and prepare Journal, Ledger, Trial balance, manufacturing	Understand
		Understand the responsibility of a manager and fundamental concepts of Managerial Economics.	Understand
PC452EE	CAED LAB	I**dentify** and draw different components of electrical systems	Apply
		Draw different control and wiring diagrams	Create
		Draw winding diagrams of electrical machines	create
		To understand the terminology of electric circuit and electrical components	understand
		Familiarize with electrical machines, apparatus and	understand

		appliances	
		To acquire knowledge on various Electrical Engineering software	Evaluate

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METHODIST COLLEGE OF ENGINEERING AND TECHNOLOGY

Department of Electrical and Electronics Engineering

Course Outcomes

AY: 2018-19 VI Semester

Course Code	Course Name	Course Outcomes	Taxonomy
PC601EE	ELECTRICAL MACHINES-III	**Identify** different parts and operation of induction motors and specify their functions	Understand
		Understand the characteristics and carry out different testing methods of induction motors	Understand
		Identify different parts and operation of Synchronous generator	Apply
		Understand the necessity and working of parallel operation of synchronous generator and operation of synchronous motor	Apply
		Identify types of single phase motors and special motors	Understand
		Identify different parts and operation of induction motors and specify their functions	Understand
PC602EE	MICROPROCESSORS AND MICROCONTROLLERS	**Adapt** the knowledge of Architecture of 8086 and 8051, writing assembly language programming for different applications.	Create
		Explain types of microcontrollers and their applications.	Understand
		Develop a write programs to run on 8086 microprocessor based systems.	Apply
		Define the techniques for faster execution of instructions, improve speed of operations and enhance performance of microprocessors.	Remember
		Interpret the difference between Microprocessors and Microcontrollers.	Evaluate
		Simplify and design system using memory chips and peripheral chips for 16-bit 8086 microprocessor.	Create
PC603EE	SWITCHGEAR AND PROTECTION	**Understand** the operations of various types of circuit breakers and their ratings.	Understand
		Understand the unit protection and over voltage protection of different apparatus in power system	Understand
		Explain the working of different types of switchgear equipments like circuit breakers and relays	Apply
		Elucidate various protection schemes of various power system components like alternators, transformers and bus-bars	Apply
		To get the thorough knowledge on concept of	Analyze

		earthing and grounding.	
		Understand the operations of various types of circuit breakers and their ratings.	Understand
PC604EE	RENEWABLE ENERGY TECHNOLOGIES	**Understand** Knowledge of working principle of various energy systems	Remember
		Capable to carry out basic design of renewable energy system	Apply
		Analyze the environmental and cost economics of renewable energy sources in comparison with fossil fuels	Analyze
		Explain the concepts of Non-renewable and renewable energy systems	Applying
		Outline utilization of renewable energy sources for both domestic and industrial applications	Understand
		Knowledge of working principle of various energy systems	Understand
PE602EE	ELECTRIC DISTRIBUTION SYSTEM	**Analyze** load characteristics, rate structure & types of Distribution Transformers	Analyze
		Analyze and Solve Sub-Transmission lines and Various substation Bus schemes with multiple feeders.	Analyze
		Analyze the design considerations of Distribution systems	Analyze
		Compute voltage drop , power loss calculations & justify placement of capacitor in distribution system	Analyze
		Formulate Distribution automation like SCADA & Automatic meter reading(AMR)	Formulate
		Justify the placement of feeders	Evaluate
OE 601 ME	INDUSTRIAL ROBOTICS	**Understand** the mechanical structure of industrial robots, operational workspace, various types of grippers, design considerations.	Understand
		Compare the various types of grippers, sensors and Analyze the best and economical sensors for specific applications.	Analyze

		Analyze forward and inverse kinematics problems for serial and parallel robots.	Apply
		Understand the techniques of robot vision, various programming languages and apply these techniques to build robots.	Apply
		Understand about RGV and AGV , safety considerations and economic analysis of robots	Understand
		Categorize an industrial robot for a given purpose economically.	Analyze
PC651EE	ELECTRICAL MACHINES-II LAB	**Verify** the theory and working of electrical machines through laboratory experimental work.	Understand
		Make circuit diagram connections to perform experiments, measure, **analyze** the observed data to come to a conclusion.	Evaluate
		Organize reports based on performed experiments with effective demonstration of diagrams and characteristics/graphs.	Analyze
		Determine the different parameters of a three-phase alternator and its regulation	Understand
		Determine the different parameters of a three-phase synchronous motor as well as its 'V' and 'inverted V' curves	Analyze
		Compare the performance characteristics of different electrical machines.	Create
PC653EE	CONTROL SYSTEMS LAB	**Understand** Performance of P, PI and PID Controllers.	Understand
		Develop PLC programs for certain applications.	Apply
		Make use of the knowledge of Data acquisition system and Industrial process control in real world.	Apply
		Develop transfer function of various control system plants practically by conducting the experiments.	Apply
		Design and Simulate the Programming and control system concepts using MATLAB.	Create
		Design of lag and lead compensation by using Networks.	Create
PC652EE	DSP LAB	**Compute** and write MATLAB code to generate basic waves	Apply

		Compute and write MATLAB code to apply sampling theorem, to obtain convolution and compute DFT and FFT	Apply
		Compute and write MATLAB code to **design** FIR and IIR filters	Create
		Compute and write MATLAB code to obtain convolution of sequences	Apply
		Compute and write MATLAB code to perform basic operations on basic waves	Apply
		Compute and write MATLAB code to obtain Impulse response	Apply
SI671EE	SUMMER INTERNSHIPS	**Design** a small and simple product in hardware or software	Create
		Complete the task or realize a prespecified target, with limited scope, rather than taking up a complex task and leave it	Apply
		Learn to find alternate viable solutions for a given problem and evaluate these alternatives with reference to prespecified criteria	Evaluate
		Implement the selected solution and document the same	Create
		Integrate different aspects of learning with reference to real life problems.	Understand
		Enhance the confidence of the students while communicating with industry engineers	Understand

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METHODIST COLLEGE OF ENGINEERING AND TECHNOLOGY

Department of Electrical and Electronics Engineering

Course Outcomes

AY: 2018-19 VIII Semester

Course Code	Course Name	Course Outcomes	Taxonomy
PE451EE	UTILIZATION OF ELECTRICAL ENGINEERING	**Design** major utilization loads, choose suitable drive with regard to efficiency and safety	Understand
		Describe different heating methods for a particular application.	Understand
		Apply modern trends in electric welding processes	Analyze
		Understand illumination concepts for efficient and economic lightning in industries streets and offices.	Analyze
		Analyze electric traction motors with wide range of speed control	Analyze
		Design major utilization loads, choose suitable drive with regard to efficiency and safety	Apply
PE471EE	RENEWABLE ENERGY SOURCES	**List** and Compare the various forms of non conventional energy resources and availability of all sources	Understand
		Explain the solar energy applications and calculations of solar energy	Understand
		Analyze how wind energy can be tapped from the nature and it's calculations	Analyze
		Outline the Geothermal & Biomass, its mechanism of production of energy and its applications	Understand
		Illustrate the concepts of Wave, Tidal energy & OTEC	Understand
		Analyze the environmental aspects of renewable energy resources.	Analyze
ME 472	INDUSTRIAL ADMINISTRATION & FINANACIAL MANAGEMENT	**Understand** types of various business organizations, organization structures, and functions of management and the importance of plant layouts.	Understand
		Understand and Apply the concept of Work Study (method study and time study) techniques for calculation of standard time in a plant, and the concept of performance rating factors & types of	Apply

		ratings.	
		Evaluate whether the quality of a product or process in a plant.	Evaluate
		Understand and Apply the optimization techniques like Linear Programming, Assignment and Project management & Material Management techniques for e optimum utilization of the resources.	Apply
		Know the different terminology used in Financial Management, understand and apply break even analysis and different techniques of capital budgeting involved in running an industrial organization.	Apply
		Understand the concepts of Quality control, process control, material control, Production Planning control and by use of control charts	Understand
CE452	DISASTER MITIGATION MANAGEMNT	**Attain** knowledge on various types, stages, phases in disaster with international & national policies & programmes with reference to the disaster reduction	Understand
		Understand various types of natural disaster, their occurrence, Effects, Mitigation and Management Systems in India	Understand
		Understand different types of manmade disasters, their occurrence, Effects, Mitigation and Management Systems in India	Understand
		Explain the utility of geographic information systems (GIS), Remote sensing technology in all phases of disaster mitigation and management	Understand
		Understand on the concepts of risk, vulnerability, warning and forecasting methods in disaster management	Understand
		Understand the role of education and training in disaster prevention.	Understand
EE481	DIGITAL SINGAL PROCESSING LAB	Compute and write MATLAB code to generate basic waves	Apply
		Compute and write MATLAB code to apply sampling theorem, to obtain convolution and compute DFT and FFT	Apply

		Compute and write MATLAB code to design FIR and IIR filters	Create
		Compute and write MATLAB code to obtain convolution of sequences	Apply
		Compute and write MATLAB code to perform basic operations on basic waves	Apply
		Compute and write MATLAB code to obtain Impulse response	Apply
EE 482	PROJECTS	Rephrase the basic concepts of electrical engineering and discover the implementation	Analyse
		Develop the design and analysis of a particular problem in project	Apply
		Formulate the programming and interpret the project	Create
		Develop the hardware	Create
		Perceive the practical knowledge within the chosen area of technology for project development	Evaluate
		Evaluate different solutions based on economic and technical feasibility	Create
EE 483	SEMINARS	**Demonstrate** the ability to synthesize and apply the knowledge and skills acquired in the academic program to real-world problems	Understand
		Evaluate different solutions based on economic and technical feasibility for the needs of society	Evaluate
		Effectively **communicate the selected technology topics** to excel in the career chosen.	Create
		Demonstrate effective written and oral communication skills	Understand
		Explore the industry practices	Evaluate
		Enhance practical and professional skills.	Evaluate

Coordinator

Head of the Department