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AcademicYear:2022-2023		Year:I Semester:I	Course:English	Regulation:R20
S.No.	CourseOutcomes	Description		
1	C101.1	understand social or transactional dialogues spoken by native speakers of English and identify the context, topic, and pieces of specific information		
2	C101.2	ask and answer general questions on familiar topics and introduce oneself/others		
3	C101.3	employ suitable strategies for skimming and scanning to get the general idea of a text and locate specific information		
4	C101.4	recognize paragraph structure and be able to match beginnings/endings/headings with paragraphs		
5	C101.5	form sentences using proper grammatical structures and correct word forms		

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AcademicYear:2022-2023		Year: I Semester: I	Course: MATHEMATICS-I	Regulation:R20
S.No.	CourseOutcomes	Description		
1	C102.1	utilize mean value theorems to real life problems (L3)		
2	C102.2	solve the differential equations related to various engineering fields (L3)		
3	C103.3	familiarize with functions of several variables which is useful in optimization (L3)		
4	C104.4	apply double integration techniques in evaluating areas bounded by region (L3)		
5	C105.5	Students will also learn important tools of calculus in higher dimensions. Students will become familiar with 2- dimensional and 3-dimensional coordinate systems (L5)		

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AcademicYear:2022-2023		Year: I Semester: I	Course: MATHEMATICS-II	Regulation:R20
S.No.	Course Outcomes	Description		
1	C103.1	develop the use of matrix algebra techniques that is needed by engineers for practical applications (L6)		
2	C103.2	solve system of linear algebraic equations using Gauss elimination, Gauss Jordan, Gauss Seidel (L3)		
3	C103.3	evaluate the approximate roots of polynomial and transcendental equations by different algorithms (L5)		
4	C103.4	apply Newton's forward & backward interpolation and Lagrange's formulae for equal and unequal intervals (L3)		
5	C103.5	apply numerical integral techniques to different Engineering problems (L3)		

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AcademicYear:2022-2023		Year: I Semester: I	Course: PROGRAMMING FOR PROBLEM SOLVING USING C	Regulation:R20
S.No.	Course Outcomes	Description		
1	C104.1	To write algorithms and to draw flowcharts for solving problems		
2	C104.2	To convert flowcharts/algorithms to C Programs, compile and debug programs		
3	C104.3	To use different operators, data types and write programs that use two-way/ multi-way selection		
4	C104.4	To select the best loop construct for a given problem		
5	C104.5	To design and implement programs to analyze the different pointer applications		

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AcademicYear:2022-2023		Year: I Semester: I	Course: ENGINEERING DRAWING & DESIGN	Regulation:R20
S.No.	**Course Outcomes**	**Description**		
1	C105.1	To introduce the students to use drawing instruments and to draw polygons, Engg. Curves. specific information		
2	C105.2	To introduce the students to use orthographic projections, projections of points & simple lines.		
3	C105.3	he objective is to make the students draw the projections of the plane inclined to both the		
4	C105.4	The objective is to make the students draw the projections of the various types of solids in		
5	C105.5	The objective is to represent the object in 3D view through isometric views. The student will		

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AcademicYear:2022-2023		Year:I Semester: II	Course: MATHEMATICS-III	Regulation:R20
S.No.	Course Outcomes	Description		
1	C106.1	interpret the physical meaning of different operators such as gradient, curl and divergence (L5)		
2	C106.2	estimate the work done against a field, circulation and flux using vector calculus (L5)		
3	C106.3	apply the Laplace transform for solving differential equations (L3)		
4	C106.4	find or compute the Fourier series of periodic signals (L3)		
5	C106.5	know and be able to apply integral expressions for the forwards and inverse Fourier transform to a range of non-periodic waveforms (L3)		

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AcademicYear:2022-2023		Year:I Semester: II	Course: APPLIED PHYSICS	Regulation:R20
S.No.	Course Outcomes	Description		
1	C107.1	**Explain** the need of coherent sources and the conditions for sustained interference (L2)		
2	C107.2	**Understand** the basic concepts of LASER light Sources (L2)		
3	C107.3	**Interpret** the concepts of classical and quantum free electron theories (L2)		
4	C107.4	**Explain** the concept of dielectric constant and polarization in dielectric materials (L2)		
5	C107.5	**Classify** the energy bands of semiconductors (L2) waveforms (L3)		

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AcademicYear:2022-2023		Year:I Semester: II	Course: DATA STRUCTURES THROUGH C	Regulation:R20
S.No.	Course Outcomes	Description		
1	C108.1	data structures concepts with arrays, stacks, queues.		
2	C108.2	linked lists for stacks, queues and for other applications.		
3	C108.3	traversal methods in the Trees		
4	C108.4	various algorithms available for the graphs.		
5	C108.5	sorting and searching in the data ret retrieval applications waveforms (L3)		

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AcademicYear:2022-2023		Year:I Semester: II	Course: ELECTRICAL CIRCUIT ANALYSIS -I	Regulation:R20
S.No.	Course Outcomes	Description		
1	C109.1	Various electrical networks in presence of active and passive elements.		
2	C109.2	Electrical networks with network topology concepts.		
3	C109.3	Any magnetic circuit with various dot conventions		
4	C109.4	Any R, L, C network with sinusoidal excitation		
5	C109.5	Any R, L, network with variation of any one of the parameters i.e., R, L, C and f.		

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AcademicYear:2022-2023		Year:II Semester: I	Course: MATHEMATICS-IV	Regulation:R20
S.No.	**Course Outcomes**	**Description**		
1	C201.1	apply Cauchy-Riemann equations to complex functions in order to determine whether a given continuous function is analytic (L3)		
2	C201.2	find the differentiation and integration of complex functions used in engineering problems (L5)		
3	C201.3	make use of the Cauchy residue theorem to evaluate certain integrals (L3)		
4	C201.4	apply discrete and continuous probability distributions (L3)		
5	C201.5	design the components of a classical hypothesis test (L6)		

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AcademicYear:2022-2023		Year:II Semester: I	Course: ELECTRONIC DEVICES AND CIRCUITS	Regulation:R20
S.No.	**Course Outcomes**	**Description**		
1	C202.1	Understand the basic concepts of semiconductor physics .		
2	C202.2	Understand the formation of p-n junction and how it can be used as a p-n junction as diode in different modes of operation		
3	C202.3	Any Know the construction, working principle of rectifiers with and without filters with relevant expressions and necessary comparisons.		
4	C202.4	Understand the construction, principle of operation of transistors, BJT and FET with their V-I characteristics in different configurations.		
5	C202.5	Know the need of transistor biasing, various biasing techniques for BJT and FET and stabilization concepts with necessary expressions		

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AcademicYear:2022-2023		Year:II Semester: I	Course ELECTRICAL CIRCUIT ANALYSIS -II	Regulation:R20
S.No.	**Course Outcomes**	**Description**		
1	C203.1	Understand the concepts of balanced and unbalanced three-phase circuits. (L3)		
2	C203.2	Know the transient behavior of electrical networks with DC excitations.		
3	C203.3	Learn the transient behavior of electrical networks with AC excitations.		
4	C203.4	Estimate various parameters of a two port network		
5	C203.5	Understand the significance of filters in electrical networks		

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AcademicYear:2022-2023		Year:II Semester: I	Course: DC MACHINES AND TRANSFORMERS	Regulation:R20
S.No.	**Course Outcomes**	**Description**		
1	C204.1	Assimilate the concepts of electromechanical energy conversion		
2	C204.2	Mitigate the ill-effects of armature reaction and improve commutation in dc machines		
3	C204.3	Understand the torque production mechanism and control the speed of dc motors. Without filters with relevant expressions and necessary comparisons.		
4	C204.4	Analyze the performance of single phase transformers Different configurations.		
5	C204.5	Predetermine regulation, losses and efficiency of single phase transformers. expressions		

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AcademicYear:2022-2023		Year:II Semester: I	Course: ELECTRO MAGNETIC FIELDS	Regulation:R20
S.No.	**Course Outcomes**	**Description**		
1	C205.1	Compute electric fields and potentials using Gauss law or solve Laplace's or Poisson's equations for various electric charge distributions.		
2	C205.2	Calculate the capacitance and energy stored in dielectrics.		
3	C205.3	Calculate the magnetic field intensity due to current carrying conductor and understanding the application of Ampere's law, Maxwell's second and third law.		
4	C205.4	Estimate self and mutual inductances and the energy stored in the magnetic field		
5	C205.5	Understand the concepts of displacement current and Poynting theorem and Poynting vector		

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AcademicYear:2022-2023		Year:II Semester: II	Course: PYTHON PROGRAMMING	Regulation:R20
S.No.	**Course Outcomes**	**Description**		
1	C206.1	Develop essential programming skills in computer programming concepts like data types, containers		
2	C206.2	Apply the basics of programming in the Python language Solve coding tasks related conditional execution, loops		
3	C206.3	Solve coding tasks related to the fundamental notions and techniques used in object- oriented programming		
4	C206.4	Develop essential programming skills in computer programming concepts like data types, containers		
5	C206.5	Apply the basics of programming in the Python language Solve coding tasks related conditional execution, loops		

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AcademicYear:2022-2023		Year:II Semester: II	Course: DIGITAL ELECTRONICS	Regulation:R20
S.No.	**Course Outcomes**	**Description**		
1	C207.1	The operation and design methodology for synchronous sequential circuits and algorithmic state machines		
2	C207.2	Classify different number systems and apply to generate various codes		
3	C207.3	Use the concept of Boolean algebra in minimization of switching functions		
4	C207.4	Design different types of combinational logic circuits		
5	C207.5	Apply knowledge of flip-flops in designing of Registers and counters		

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AcademicYear:2022-2023		Year:II Semester: II	Course: POWER SYSTEMS -I	Regulation:R20
S.No.	**Course Outcomes**	**Description**		
1	C208.1	Identify the different components of thermal with diagrams power plants		
2	C208.2	Identify the different components of thermal power plants.		
3	C208.3	Identify the different components of nuclear Power plants.		
4	C208.4	Identify the different components of air and gas insulated substations.		
5	C208.5	Identify single core and three core cables with different insulating materials.		

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AcademicYear:2022-2023		Year:II Semester: II	Course: INDUCTION AND SYNCHRONOUS MACHINES	Regulation:R20
S.No.	**Course Outcomes**	**Description**		
1	C209.1	Explain hunting phenomenon, implement methods of staring and correction of power factor with synchronous motor		
2	C209.2	Explain the operation and performance of three phase induction motor.		
3	C209.3	Analyze the torque-speed relation, performance of induction motor and induction generator		
4	C209.4	Implement the starting of single phase induction motors		
5	C209.5	Develop winding design and predetermine the regulation of synchronous generators.		

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AcademicYear:2022-2023		Year:II Semester: II	Course: MANAGERIAL ECONOMICS & FINANCIAL ANALYSIS	Regulation: R20
S.No.	**Course Outcomes**	**Description**		
1	C210.1	The Learner can able to evaluate various investment project proposals with the help of capital budgeting techniques for		
2	C210.2	The Learner is equipped with the knowledge of estimating the Demand and demand elasticities for a product		
3	C210.3	The knowledge of understanding of the Input-Output-Cost relationships and estimation of the least cost combination of inputs		
4	C210.4	The pupil is also ready to understand the nature of different markets and Price Output determination under various market conditions and also to have the knowledge of different		
5	C210.5	The Learner is able to prepare Financial Statements and the usage of various Accounting tools for Analysis		

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AcademicYear:2022-2023		Year:III Semester: I	Course: POWER SYSTEMS–II	Regulation:R20
S.No.	**Course Outcomes**	**Description**		
1	C301.1	Calculate sag/tension of transmission lines and performance of line insulators.		
2	C301.2	Calculate parameters of transmission lines for different circuit configurations.		
3	C301.3	Determine the performance of short, medium and long transmission lines.		
4	C301.4	Analyse the effect of travelling waves on transmission lines.		
5	C301.5	Analyse the various voltage control methods and effect of corona.		

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AcademicYear:2022-2023		Year:III Semester: I	Course: POWER ELECTRONICS	Regulation:R20
S.No.	**Course Outcomes**	**Description**		
1	C302.1	Illustrate the static and dynamic characteristics of SCR, Power-MOSFET and Power-IGBT.		
2	C302.2	Analyse the operation of phase-controlled rectifiers.		
3	C302.3	Analyse the operation of three-phase full–wave converters, AC Voltage Controllers and Cycloconverters.		
4	C302.4	Examine the operation and design of different types of DC-DC converters.		
5	C302.5	Analyse the operation of PWM inverters for voltage control and harmonic mitigation		

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AcademicYear:2022-2023		Year:III Semester: I	Course: CONTROL SYSTEMS	Regulation:R20
S.No.	**Course Outcomes**	**Description**		
1	C303.1	Derive the transfer function of physical systems and determination of overall transfer function using block diagram algebra and signal flow graphs.		
2	C303.2	Determine time response specifications of second order systems and absolute and relative stability of LTI systems using Routh's stability criterion and root locus method.		
3	C303.3	Analyze the stability of LTI systems using frequency response methods.		
4	C303.4	Design Lag, Lead, Lag-Lead compensators to improve system performance using Bode diagrams.		
5	C303.5	Represent physical systems as state models and determine the response. Understand the concepts of controllability and observability		

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AcademicYear:2022-2023		Year:III Semester: I	Course: UTILIZATION OF ELECTRICAL ENERGY	Regulation:R20
S.No.	**Course Outcomes**	**Description**		
1	C304.1	Identify various illumination methods produced by different illuminating sources.		
2	C304.2	Identify a suitable motor for electric drives and industrial applications		
3	C304.3	Identify most appropriate heating and welding techniques for suitable applications.		
4	C304.4	Distinguish various traction system and determine the tractive effort and specific energy consumption.		
5	C304.5	Validate the necessity and usage of different energy storage schemes for different applications and comparisons.		

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AcademicYear:2022-2023		Year:III Semester: I	Course: LINEAR IC APPLICATIONS	Regulation:R20
S.No.	Course Outcomes	Description		
1	C305.1	Use the Op-Amp in ADC Converters		
2	C305.2	Describe the Op-Amp and internal Circuitry: 555 Timer, PLL		
3	C305.3	Discuss the Applications of Operational amplifier: 555 Timer, PLL		
4	C305.4	Design the Active filters using Operational Amplifier		
5	C305.5	Use the Op-Amp in A to D & D to A Converters		

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AcademicYear:2022-2023		Year:III Semester: II	Course: MICROPROCESSORS AND MICROCONTROLLERS	Regulation:R20
S.No.	**Course Outcomes**	**Description**		
1	C306.1	Know the concepts of the Microprocessor capability in general and explore the evaluation of microprocessors.		
2	C306.2	□ Analyse the instruction sets - addressing modes - minimum and maximum modes operations of 8086 Microprocessors		
3	C306.3	□ Analyse the Microcontroller and interfacing capability		
4	C306.4	□ Describe the architecture and interfacing of 8051 controller		
5	C306.5	□ Know the concepts of PIC micro controller and its programming.		

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AcademicYear:2022-2023		Year:III Semester: II	Course: ELECTRICAL MEASUREMENTS AND INSTRUMENTATION	Regulation:R20
S.No.	**Course Outcomes**	**Description**		
1	C307.1	Know the construction and working of various types of analog instruments.		
2	C307.2	Describe the construction and working of wattmeter and power factor meters		
3	C307.3	Know the construction and working various bridges for the measurement resistance - inductance and capacitance		
4	C307.4	Know the operational concepts of various transducers		
5	C307.5	Know the construction and operation digital meters		

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AcademicYear:2022-2023		Year:III Semester: II	Course: POWER SYSTEM ANALYSIS	Regulation:R20
S.No.	Course Outcomes	Description		
1	C308.1	Draw impedance diagram for a power system network and calculate per unit quantities.		
2	C308.2	Apply the load flow solution to a power system using different methods.		
3	C308.3	Form Zbus for a power system networks and analyse the effect of symmetrical faults.		
4	C308.4	Find the sequence components for power system Components and analyse its effects of unsymmetrical faults.		
5	C308.5	Analyse the stability concepts of a power system		

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AcademicYear:2022-2023		Year:III Semester: II	Course: SWITCHGEAR AND PROTECTION	Regulation:R20
S.No.	Course Outcomes	Description		
1	C309.1	Illustrate the principles of arc interruption for application to high voltage circuit breakers of air - oil - vacuum - SF6 gas type.		
2	C309.2	Analyse the working principle and operation of different types of electromagnetic protective relays.		
3	C309.3	Acquire knowledge of protective schemes for generator and transformers for different fault conditions.		
4	C309.4	Classify various types of protective schemes used for feeders and bus bar protection and Types of static relays.		
5	C309.5	Analyse the operation of different types of over voltages protective schemes required for insulation co–ordination and types of neutral grounding.		

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AcademicYear:2022-2023		Year:III Semester: II	Course: BIG DATA ANALYTICS	Regulation:R20
S.No.	**Course Outcomes**	**Description**		
1	C310.1	Analyze data by utilizing various statistical and data mining approaches		
2	C310.2	Understand how to leverage the insights from big data analytics		
3	C310.3	Analyze data by utilizing various statistical and data mining approaches		
4	C310.4	Perform analytics on real-time streaming data		
5	C310.5	Understand the various NoSql alternative database models		

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AcademicYear:2022-2023		Year:IV Semester: I	Course: SWITCHGEAR AND PROTECTION	Regulation:R19
S.No.	Course Outcomes	Description		
1	C401.1	understand the principles of arc interruption for application to high voltage circuit breakers of air, oil, vacuum, SF6 gas type.		
2	C401.2	understand the working principle and operation of different types of electromagnetic protective relays.		
3	C401.3	students acquire knowledge of faults and protective schemes for high power generator and transformers.		
4	C401.4	improves the ability to understand various types of protective schemes used for feeders and bus bar protection.		
5	C401.5	understand different types of static relays and their applications.		

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AcademicYear:2022-2023		Year:IV Semester: I	Course: OOPS THROUGH JAVA	Regulation:R19
S.No.	Course Outcomes	Description		
1	C402.1	understand Java programming concepts and utilize Java Graphical User Interface in		
2	C402.2	Program writing.		
3	C402.3	□ write, compile, execute and troubleshoot Java programming for networking concepts.		
4	C402.4	□ build Java Application for distributed environment.		
5	C42.5	□ design and Develop multi-tier applications.		

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AcademicYear:2022-2023		Year:IV Semester: I	Course: RENEWABLE ENERGY SYSTEMS	Regulation:R19
S.No.	**Course Outcomes**	**Description**		
1	C403.1	analyze solar radiation data, extraterrestrial radiation, and radiation on earth's surface.		
2	C403.2	design solar thermal collectors, solar thermal plants.		
3	C403.3	design solar photo voltaic systems.		
4	C403.4	develop maximum power point techniques in solar PV and wind energy systems.		
5	C403.5	explain wind energy conversion systems, wind generators, power generation.		

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AcademicYear:2022-2023		Year:IV Semester: I	Course: DATA BASE MANAGEMENT SYSTEMS	Regulation:R19
S.No.	**Course Outcomes**	**Description**		
1	C404.1	describe a relational database and object-oriented database.		
2	C404.2	create, maintain and manipulate a relational database using SQL		
3	C404.3	describe ER model and normalization for database design.		
4	C404.4	examine issues in data storage and query processing and can formulate appropriate solutions.		
5	C404.5	understand the role and issues in management of data such as efficiency, privacy, security, ethical responsibility, and strategic advantage.		

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AcademicYear:2022-2023		Year:IV Semester: I	Course: ADVANCED CONTROL SYSTEMS	Regulation:R19
S.No.	**Course Outcomes**	**Description**		
1	C405.1	formulate different state models in canonical forms.		
2	C405.2	design of state feedback control using the pole placement technique and state observer design for a given control system.		
3	C405.3	analyse of nonlinear system using the describing function technique and determine the stability of a linear autonomous system using lyapnov method.		
4	C405.4	determine minimization of functionals using calculus of variation studied.		
5	C405.5	formulate and solve the LQR problem and riccatti equation.		

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DEPARTMENT OF ELECTRUCAL AND ELECTRONICS ENGINEERING

DEPARTMENT OF ELECTRUCAL AND ELECTRONICS ENGINEERING				
AcademicYear:2022-2023		Year:IV Semester: II	Course: NEURAL NETWORKS AND FUZZY LOGIC	Regulation:R19
S.No.	**Course Outcomes**	**Description**		
1	C406.1	know different models of artificial neuron & Use learning methods of ANN.		
2	C406.2	use different paradigms of ANN.		
3	C406.3	classify between classical and fuzzy sets.		
4	C406.4	use different modules of Fuzzy logic controller.		
5	C406.5	apply Neural Networks and fuzzy logic for real-time applications		

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AcademicYear:2022-2023		Year:IV Semester: II	Course: HIGH VOLTAGE ENGINEERING	Regulation:R19
S.No.	**Course Outcomes**	**Description**		
1	C407.1	understand theory of breakdown and withstand phenomenon for all types of dielectric materials.		
2	C407.2	□ acquaint with the techniques of generation of AC,DC and Impulse voltages.		
3	C407.3	□ apply knowledge for measurement of high AC,DC, Impulse voltages and currents.		
4	C407.4	□ be in a position to measure dielectric property of materials used in HV equipment.		
5	C407.5	□ know the testing techniques of various equipments used in HV engineering.		

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AcademicYear:2022-2023		Year:IV Semester: II	Course: POWER SYSTEM OPERATION AND CONTROL	Regulation:R19
S.No.	**Course Outcomes**	**Description**		
1	C408.1	compute optimal scheduling of Generators.		
2	C408.2	understand hydrothermal scheduling.		
3	C408.3	understand the unit commitment problem.		
4	C408.4	understand importance of the frequency.		
5	C408.5	understand importance of PID controllers in single area and two area systems.		

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AcademicYear:2022-2023		Year:IV Semester: II	Course: ELECTRICAL DISTRIBUTION SYSTEMS	Regulation:R19
S.No.	**Course Outcomes**	**Description**		
1	C409.1	understand various factors of distribution system.		
2	C409.2	design the substation and feeders.		
3	C409.3	determine the voltage drop and power loss		
4	C409.4	understand the protection and its coordination.		
5	C409.5	understand the effect of compensation forp.f improvement.		