

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

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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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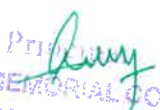
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AcademicYear:2022-2023		Year: I Semester: I	Course: MATHEMATICS-I Regulation:R20
S.No.	CourseOutcomes	Description	
1	C102.1	utilize mean value theorems to real life problems (L3)	
2	C102.2	solve the differential equations related to various engineering 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)	

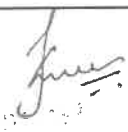
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Academic Year: 2022-2023		Year: I Semester: I	Course: MATHEMATICS-II Regulation: R20
S.No.	Course Outcomes	Description	
1	C103.1	develop the use of matrix algebra techniques that is needed by engineers for practical applications (L6)	
2	C103.2	solve 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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Academic Year: 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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Academic Year: 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	The 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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Academic Year: 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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Academic Year: 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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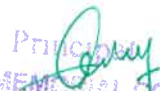

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AcademicYear:2022-2023		Year:I Semester: II	Course: DATA STRUCTURES THROUGH C Regulation:R20
S.No.	Course Outcomes	Description	
1	C108.1	data structures concepts with arrays, stacks, queues.	
2	C108.2	linked lists for stacks, queues and for other applications.	
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 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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Academic Year: 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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Academic Year: 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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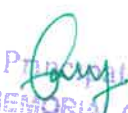
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AcademicYear:2022-2023		Year:II Semester: I	Course: DC MACHINES AND TRANSFORMERS
		Regulation:R20	
S.No.	Course Outcomes	Description	
1	C204.1	Assimilate the concepts of electromechanical energy conversion	
2	C204.2	Mitigate the ill-effects of armature 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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Academic Year: 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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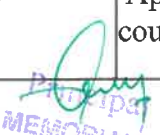

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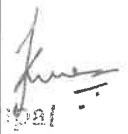
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AcademicYear:2022-2023		Year:II Semester: II	Course: PYTHON PROGRAMMING Regulation:R20
S.No.	Course Outcomes	Description	
1	C206.1	Develop essential programming skills in computer programming concepts like data types, containers	
2	C206.2	Apply the 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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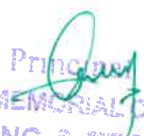
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AcademicYear:2022-2023		Year:II Semester: II	Course: INDUCTION AND SYNCHRONOUS MACHINES Regulation:R20
S.No.	Course Outcomes	Description	
1	C209.1	Explain hunting phenomenon, implement methods of starting and correction of power factor with synchronous 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.	

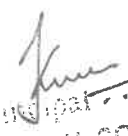

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Academic Year: 2022-2023		Year: II Semester: II	Course: MANAGERIAL ECONOMICS & FINANCIAL ANALYSIS
		Regulation: R20	
S.No.	Course Outcomes	Description	
1	C210.1	The Learner can able to evaluate various investment project proposals with the help of 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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Academic Year: 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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Academic Year: 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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Academic Year: 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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Academic Year: 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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Academic Year: 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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Academic Year: 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	<input type="checkbox"/> Analyse the instruction sets - addressing modes - minimum and maximum modes operations of 8086 Microprocessors	
3	C306.3	<input type="checkbox"/> Analyse the Microcontroller and interfacing capability	
4	C306.4	<input type="checkbox"/> Describe the architecture and interfacing of 8051 controller	
5	C306.5	<input type="checkbox"/> Know the concepts of PIC micro controller and its programming.	

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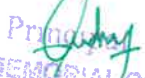
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Academic Year: 2022-2023		Year: III Semester: II	Course: ELECTRICAL MEASUREMENTS AND INSTRUMENTATION Regulation: R20
S.No.	Course Outcomes	Description	
1	C307.1	Know the construction and working of various types of analog instruments.	
2	C307.2	Describe 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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Academic Year: 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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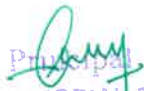
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Academic Year: 2022-2023		Year: III Semester: II	Course: SWITCHGEAR AND PROTECTION Regulation: R20
S.No.	Course Outcomes	Description	
1	C309.1	Illustrate the principles of arc interruption for application to high voltage circuit breakers of air - oil - 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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 Narasaraopet (R.D), Guntur (Dt)

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING			
Academic Year: 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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 Head of Department
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING			
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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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING			
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	<input type="checkbox"/> write, compile, execute and troubleshoot Java programming for networking concepts.	
4	C402.4	<input type="checkbox"/> build Java Application for distributed environment.	
5	C42.5	<input type="checkbox"/> design and Develop multi-tier applications.	

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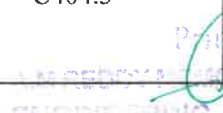
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING			
AcademicYear:2022-2023	Year:IV Semester: I	Course: RENEWABLE ENERGY SYSTEMS	Regulation:R19
S.No.	Course Outcomes	Description	
1	C403.1	analyze solar radiation data, extraterrestrial radiation, 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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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING			
Academic Year: 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 Lyapunov method.	
4	C405.4	determine minimization of functionals using calculus of variation studied.	
5	C405.5	formulate and solve the LQR problem and Riccati equation.	


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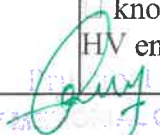

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING			
Academic Year: 2022-2023		Year: IV Semester: II	Course: NEURAL NETWORKS AND FUZZY LOGIC Regulation: R19
S.No.	Course Outcomes	Description	
1	C406.1	know different models of artificial neuron & 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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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING			
Academic Year: 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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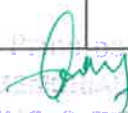

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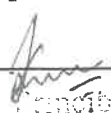
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AcademicYear:2022-2023		Year:IV Semester: II	Course: POWER SYSTEM OPERATION AND CONTROL Regulation:R19
S.No.	Course Outcomes	Description	
1	C408.1	compute optimal scheduling of Generators.	
2	C408.2	understand hydrothermal scheduling.	
3	C408.3	understand 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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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING			
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 for p.f improvement.	


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