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Memorial College of Engineering and Technology

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ATLURI BASTARI REDDY EDUCATIONAL SOCIETY, REG. NO. 454/2003

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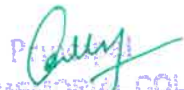
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S.No.	Program	Year	Semester	Course Outcomes	Page Number	
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DEPARTMENT OF CIVIL ENGINEERING

Department: Department of Civil Engineering			
Academic Year: 2022-2023	Year: I	Course: Mathematics – I	Regulation: R20
S.No.	Course Outcomes	Description	
1	C101.1	utilize mean value theorems to real life problems(L3)	
2	C101.2	solve the differential equations related to various engineering fields (L3)	
3	C101.3	familiarize with functions of several variables which is useful in optimization (L3)	
4	C101.4	apply double integration techniques in evaluating areas bounded by region (L3)	
5	C101.5	students will also learn important tools of calculus in higher dimensions. Students will become with 2-dimensional and 3-dimensional coordinate systems (L5) systems (L5)	

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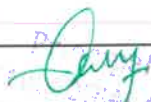
Department: Department of Civil Engineering			
Academic Year: 2022-2023	Year: I	Course: COMMUNICATIVE ENGLISH	Regulation: R20
S.No.	Course Outcomes	Description	
1	C102.1	understand social or transactional dialogues spoken by native speakers of English and identify the context,	
2	C102.2	¼ ask and answer general questions on familiar topics and introduce oneself/others	
3	C102.3	¼ employ suitable strategies for skimming and scanning to get the general idea of a text and locate specific information	
4	C102.4	recognize paragraph structure and be able to match beginnings/endings/headings with paragraphs	
5	C102.5	form sentences using proper grammatical structures and correct word forms	

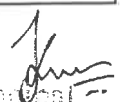
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Department: Department of Civil Engineering			
Academic Year: 2022-2023		Year: I Semester: I	Course: ENGINEERING PHYSICS Regulation: R20
S.No.	Course Outcomes	Description	
1	C103.1	1. Explain the need of coherent sources and the conditions for sustained interference (L2).	
2	C103.2	Explain various types of emission of radiation (L2). Identify lasers as tools in engineering applications (L3).	
3	C103.3	Explain the concept of dielectric constant and polarization in dielectric materials (L2). Summarize various types of polarization of dielectrics (L2)	
4	C103.4	Explain sound waves and its propagation/absorption of construction material used in design of buildings (L2).	
5	C103.5	1 Interpret various crystal systems (L2) and Analyze the characterization of materials by XRD (L4).	

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Department: Department of Civil Engineering			
Academic Year 2022-2023		Year: I Semester: I	Course: ENGINEERING GEOLOGY Regulation: R20
S.No.	Course Outcomes	Description	
1	C104.1	x Identify and classify the geological minerals x Measure the rock strengths of various rocks x Classify and measure the earthquake prone areas to practice the	
2	C104.2	Measure the rock strengths of various rocks	
3	C104.3	x Classify and measure the earthquake prone areas to practice the hazard zonation	
4	C104.4	Classify, monitor and measure the Landslides and subsidence Classify and measure the earthquake prone	
5	C104.5	Prepares, analyses and interpret the Engineering Geologic maps	


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Department: Department of Civil Engineering				
Academic Year 2022-2023		Year: I Semester: I	Course: ENGINEERING DRAWING	Regulation: R20
S.No.	Course Outcomes	Description		
1	C105.1	Proficiency in Technical Drawing*: Students will demonstrate proficiency in producing engineering		
2	C105.2	Understanding of Drawing Standards and Conventions*: Students will understand and apply relevant drawing standards and conventions such as dimensioning, scaling, line types, and symbols commonly used in civil engineering.		
3	C105.3	Visualization and Interpretation Skills*: Students will develop the ability to interpret and visualize two-		
4	C105.4	Communication Skills*: Students will enhance their ability to communicate engineering ideas and concepts		
5	C105.5	Collaborative Problem-Solving*: Students will collaborate in teams to solve engineering design problems by creating detailed drawings that meet specified requirements and constraints.		

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Department: Department of Civil Engineering				
Academic Year: 2022-2023		Year: I Semester: I	Course: ENGINEERING PHYSICS LAB	Regulation: R20
S.No.	Course Outcomes	Description		
1	C106.1	Understanding of Fundamental Physics Principles*: Demonstrate an understanding of fundamental physics		
2	C106.2	*Experimental Skills*: Develop proficiency in experimental techniques including data collection,		
3	C106.3	Application of Physics Concepts to Civil Engineering Problems*: Apply principles of physics to solve real-		
4	C106.4	Safety Protocols*: Adhere to safety protocols and procedures when conducting experiments, including		
5	C106.5	*Critical Thinking and Problem-Solving*: Develop critical thinking and problem-solving skills by		


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Department: Department of Civil Engineering			
Academic Year: 2022-2023		Year: I Semester: I	Course: ENGINEERING ENGLISH LAB
		Regulation: R20	
S.No.	Course Outcomes	Description	
1	C107.1	Understanding Experimental Procedures*: Students will demonstrate the ability to comprehend and follow experimental procedures specific to civil engineering applications	
2	C107.2	Data Collection and Analysis*: Students will collect experimental data accurately and analyze it using appropriate statistical and graphical methods to draw meaningful conclusions	
3	C107.3	4. *Safety Protocols*: Students will adhere to safety protocols and guidelines while conducting experiments, ensuring a safe working environment for themselves and their peers.	
4	C107.4	Teamwork and Collaboration*: Students will work collaboratively in teams to plan, execute, and analyze experiments, fostering effective communication and teamwork skills.	
5	C107.5	Application of Theory to Practice*: Students will apply theoretical knowledge gained in lectures to practical, real-world scenarios, bridging the gap between classroom learning and professional practice in civil engineering.	



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Department: Department of Civil Engineering				
Academic Year: 2022-2023		Year: I Semester: I	Course: BASICS OF CIVIL ENGG. (WORK SHOP) LAB	Regulation: R20
S.No.	Course Outcomes	Description		
1	C108.1	™ Identify different soils ™ Know various traffic signs & signals ™ Determine centre of gravity and		
2	C108.2	™ Determine distances and irregular areas using conventional survey instruments like chain, tape,		
3	C108.3	Identify different soils		
4	C108.4	Know various traffic signs & signals.		
5	C108.5	™ Determine centre of gravity and moment of inertia of channel and I-sections.		


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Department: Department of Civil Engineering			
Academic Year: 2022-2023		Year: I Semester: II	Course: MATHEMATICS – II Regulation: R20
S.No.	Course Outcomes	Description	
1	C109.1	x develop the use of matrix algebra techniques that is needed by engineers for practical applications (L6)	
2	C109.2	x solve system of linear algebraic equations using Gauss elimination, Gauss Jordan, Gauss Seidel (L3)	
3	C109.3	evaluate the approximate roots of polynomial and transcendental equations by different algorithms (L5)	
4	C109.4	apply Newton's forward & backward interpolation and Lagrange's formulae for equal and unequal	
5	C109.5	x apply numerical integral techniques to different Engineering problems (L3)	

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Department: Department of Civil Engineering			
Academic Year: 2022-2023		Year: I Semester: II	Course: ENGINEERING CHEMISTRY Regulation: R20
S.No.	Course Outcomes	Description	
1	C110.1	Analyze the suitable methods for purification and treatment of hard water and brackish water.	
2	C110.2	Utilize the theory of construction of electrodes, batteries and fuel cells in redesigning new engineering	
3	C110.3	Synthesize nanomaterials for modern advances of engineering technology.	
4	C110.4	Summarize the techniques that detect and measure changes of state of reaction.	
5	C110.5	Illustrate the commonly used industrial materials.	

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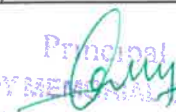
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Department: Department of Civil Engineering				
Academic Year: 2022-2023		Year: I Semester : II	Course: ENGINEERING MECHANICS	Regulation: R20
S.No.	Description			
1	C111.2	The students are to be exposed to the concepts of force and friction, direction and its application		
2	C111.3	The students are to be exposed to application of free body diagrams. Solution to problems using graphical		
3	C111.4	The students are to be exposed to concepts of centre of gravity		
4	C111.5	The students are to be exposed to concepts of moment of inertia and polar moment of inertia including		
5	C111.1	The students are to be exposed to motion in straight line and in curvilinear paths, its velocity and acceleration computation and methods of representing plane motion.		

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Department: Department of Civil Engineering				
Academic Year: 2022-2023		Year: I Semester: II	Course: BUILDING MATERIALS AND CONCRETE TECHNOLOGY	Regulation: R20
S.No.	Course Outcomes	Description		
1	C112.1	Know various engineering properties of building construction materials and suggest their suitability		
2	C112.2	Identify the functional role of ingredients of concrete and apply this knowledge to concrete mix design		
3	C112.3	Acquire and apply fundamental knowledge in the fresh and hardened properties of concrete		

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Department: Department of Civil Engineering				
Academic Year: 2022-2023		Year: I Semester: II	Course: PROGRAMMING FOR PROBLEM SOLVING USING C	Regulation: R20
S.No.	Course Outcomes	Description		
1	C113.1	To learn about the computer systems, computing environments, developing of a computer program and		
2	C113.2	To gain knowledge of the operators, selection, control statements and repetition in C		
3	C113.3	To learn about the design concepts of arrays, strings, enumerated structure and union types. To learn about		
4	C113.4	To assimilate about pointers, dynamic memory allocation and know the significance of Preprocessor.		
5	C113.5	To assimilate about File I/O and significance of functions		

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Department: Department of Civil Engineering				
Academic Year: 2022-2023		Year: I Semester: II	Course: PROGRAMMING FOR PROBLEM SOLVING USING C LAB	Regulation: R20
S.No.	Course Outcomes	Description		
1	C114.1	Apply the principles of C language in problem solving.		
2	C114.2	To design flowcharts, algorithms and knowing how to debug programs.		
3	C114.3	To design & develop of C programs using arrays, strings pointers & functions.		
4	C114.4	To review the file operations, preprocessor commands.		
5	C114.5	a C program to print a block F using hash (#), where the F has a height of six characters and width of five		

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Department: Department of Civil Engineering			
Academic Year: 2022-2023		Year: I Semester: II	Course: ENGINEERING CHEMISTRY LAB
		Regulation: R20	
S.No.		Description	
1	C115.2	The students entering into the professional course have practically very little exposure to lab classes	
2	C115.3	The experiments introduce volumetric analysis; redox titrations with different indicator.	
3	C115.4	Then they are exposed to a few instrumental methods of chemical analysis. Thus at the end of the lab course	
4	C115.5	The student is exposed to different methods of chemical analysis and use of some commonly	
5	C115.1	Molarity, normality, primary, secondary standard solutions, volumetric titrations, quantitative analysis	

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Department: Department of Civil Engineering			
Academic Year: 2022-2023		Year: I Semester: II	Course: BUILDING PLANNING AND COMPUTER AIDED BUILDING DRAWING
		Regulation: R20	
S.No.	Course Outcomes	Description	
1	C116.1	Perform basic commands of any suitable CAD software to draw 2D drawings	
2	C116.2	Interpret the conventions, signs and symbols from a given drawing.	
3	C116.3	Prepare line plans of residential and public buildings using principles of planning.	
4	C116.4	Prepare submission and working drawing from the given requirement for Load Bearing and Framed	
5	C116.5	Computer with specification suitable for relevant CAD software with any suitable CAD Software	

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Department: Department of Civil Engineering			
Academic Year: 2022-2023		Year: II Semester: I	Course: MATHEMATICS-III Regulation: R20
S.No.	Course Outcomes	Description	
1	C101.1	interpret the physical meaning of different operators such as gradient, curl and divergence (L5)	
2	C101.2	estimate the work done against a field, circulation and flux using vector calculus (L5)	
3	C101.3	apply the Laplace transform for solving differential equations (L3)	
4	C101.4	find or compute the Fourier series of periodic signals (L3)	
5	C101.5	x 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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Department: Department of Civil Engineering			
Academic Year: 2022-2023		Year: II Semester: I	Course: STRENGTH OF MATERIALS - I Regulation: R20
S.No.	Course Outcomes	Description	
1	C102.1	The student will be able to understand the basic materials behavior under the influence of different	
2	C102.2	The student will be able to draw the diagrams indicating the variation of the key performance	
3	C102.3	The student will have knowledge of bending concepts and calculation of section modulus and for	
4	C102.4	The student will be able to assess stresses across section of the thin and thick cylinders to arrive at	
5	C102.5	To give concepts of stresses developed in the cross section and bending equations calculation of section	

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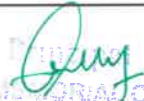
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Department: Department of Civil Engineering				
Academic Year: 2022-2023		Year: II Semester: I	Course: FLUID MECHANICS	Regulation: R20
S.No.	Course Outcomes	Description		
1	C103.1	Understand the various properties of fluids and their influence on fluid motion and analyse a variety of problems in fluid statics and dynamics.		
2	C103.2	Calculate the forces that act on submerged planes and curves.		
3	C103.3	Ability to analyse various types of fluid flows.		
4	C103.4	Apply the integral forms of the three fundamental laws of fluid mechanics to turbulent and laminar flow		
5	C103.5	Able Measure the quantities of fluid flowing in pipes, tanks and channels.		

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Department: Department of Civil Engineering				
Academic Year: 2022-2023		Year: II Semester: I	Course: SURVEYING AND GEOMETRICS	Regulation: R20
S.No.	Course Outcomes	Description		
1	C104.1	Apply the knowledge to calculate angles, distances and levels		
2	C104.2	x Identify data collection methods and prepare field notes		
3	C104.3	Understand the working principles of survey instruments, measurement errors and corrective		
4	C104.4	Interpret survey data and compute areas and volumes, levels by different type of equipment and relate the		
5	C104.5	Apply surveying principles to determine areas and volumes and setting out curves		


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Department: Department of Civil Engineering				
Academic Year: 2022-2023		Year: II Semester: I	Course: HIGHWAY ENGINEERING	Regulation: R20
S.No.	Course Outcomes	Description		
1	C105.1	Plan highway network for a given area.		
2	C105.2	¾ Determine Highway alignment and design highway geometrics.		
3	C105.3	Design Intersections and prepare traffic management plans		
4	C105.4	Judge suitability of pavement materials and design flexible and rigid pavements		
5	C105.5	To impart different concepts in the field of Highway Engineering.		

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Department: Department of Civil Engineering				
Academic Year: 2022-2023		Year: II Semester: I	Course: CONCRETE TECHNOLOGY LAB	Regulation: R20
S.No.	Course Outcomes	Description		
1	C106.1	Determine consistency and fineness of cement.		
2	C106.2	Determine setting times of cement.		
3	C106.3	Determine specific gravity and soundness of cement		
4	C106.4	Determine compressive strength of cement.		
5	C106.5	Determine workability of cement concrete by compaction factor, slump and Vee – Bee tests		

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Department: Department of Civil Engineering			
Academic Year: 2022-2023		Year: II Semester: I	Course: HIGHWAY ENGINEERING LAB
		Regulation: R20	
S.No.	Course Outcomes	Description	
1	C107.1	Test aggregates and judge the suitability of materials for the road construction	
2	C107.2	Test the given bitumen samples and judge their suitability for the road construction	
3	C107.3	Obtain the optimum bitumen content for Bituminous Concrete	
4	C107.4	Determine the traffic volume, speed and parking characteristics.	
5	C107.5	Draw highway cross sections and intersections.	

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Department: Department of Civil Engineering			
Academic Year: 2022-2023		Year: II Semester: I	Course: SURVEYING FILED WORK – I (Lab)
		Regulation: R20	
S.No.	Course Outcomes	Description	
1	C108.1	Survey in an area by chain survey (Closed circuit)	
2	C108.2	Plane table survey; finding the area of a given boundary by the method of Radiation	
3	C108.3	Plane table survey; finding the area of a given boundary by the method of intersection.	
4	C108.4	Fly levelling : Height of the instrument method (differential levelling)	
5	C108.5	Two Point Problem by the plane table survey.	

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Department: Department of Civil Engineering			
Academic Year: 2022-2023		Year: II Semester: II	Course: Complex Variables and Statistical Methods 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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Department: Department of Civil Engineering			
Academic Year: 2022-2023		Year: II Semester: II	Course: STRENGTH OF MATERIALS - II Regulation: R20
S.No.	Course Outcomes	Description	
1	C202.1	The student will be able to understand the basic concepts of Principal stresses developed in a	
2	C202.2	The student can assess stresses in different engineering applications like shafts, springs,	
3	C202.3	To give concepts of torsion and governing torsion equation, and there by calculate the	
4	C202.4	The concept of unsymmetrical bending in beams Location of neutral axis Deflection of beams	
5	C202.5	To give concepts of Principal stresses and strains developed in cross section of the beams on the	

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DEPARTMENT OF CIVIL ENGINEERING

Department: Department of Civil Engineering				
Academic Year: 2022-2023		Year: II Semester: II	Course: HYDRAULICS AND HYDRAULIC MACHINERY	Regulation: R20
S.No.	Course Outcomes	Description		
1	C203.1	Solve uniform and non-uniform open channel flow problems.		
2	C203.2	Apply the principals of dimensional analysis and similitude in hydraulic model testing.		
3	C203.3	Understand the working principles of various hydraulic machineries and pumps.		
4	C203.4	To introduce dimensional analysis for fluid flow problems		
5	C203.5	To study about uniform and non-uniform flows in open channel and also to learn about the characteristics of hydraulic jump		

DEPARTMENT OF CIVIL ENGINEERING

Department: Department of Civil Engineering				
Academic Year: 2022-2023		Year: II Semester: II	Course: ENVIRONMENTAL ENGINEERING	Regulation: R20
S.No.	Course Outcomes	Description		
1	C204.1	Select a source based on quality and quantity and Estimate design population and water demand		
2	C204.2	Design a water treatment plant for a village/city		
3	C204.3	Design a sewer by estimating DWF and Strom water flow and plumbing system for buildings		
4	C204.4	Design a Sewage Treatment Plant for a town/city.		
5	C204.5	Design of sewers and plumbing system for buildings		

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DEPARTMENT OF CIVIL ENGINEERING

Department: Department of Civil Engineering			
Academic Year: 2022-2023		Year: II Semester: II	Course: Managerial Economics & Financial Analysis
		Regulation: R20	
S.No.	Course Outcomes	Description	
1	C205.1	The Learner is equipped with the knowledge of estimating the Demand and demand elasticities	
2	C205.2	The knowledge of understanding of the Input-Output-Cost relationships and estimation of the	
3	C205.3	The pupil is also ready to understand the nature of different markets and Price Output	
4	C205.4	The Learner is able to prepare Financial Statements and the usage of various Accounting	
5	C205.5	The Learner can able to evaluate various investment project proposals with the help of capital budgeting techniques for decision making.	

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Department: Department of Civil Engineering			
Academic Year: 2022-2023		Year: II Semester: II	Course: ENVIRONMENTAL ENGINEERING LAB
		Regulation: R20	
S.No.	Course Outcomes	Description	
1	C206.1	Estimate some important characteristics of water, wastewater and soil in the laboratory	
2	C206.2	Draw some conclusion and decide whether the water is suitable for Drinking/Construction /	
3	C206.3	Estimate Chloride, EC and Salinity of Soil and suggest their suitability for	
4	C206.4	Estimation of the strength of the sewage in terms of BOD and COD and Decide whether the water	
5	C206.5	Demonstration of various instruments used in testing of water and soil and study of Drinking	


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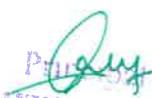
Department: Department of Civil Engineering			
Academic Year: 2022-2023		Year: II Semester: II	Course: STRENGTH OF MATERIALS LAB Regulation: R20
S.No.	Course Outcomes	Description	
1	C207.1	*Understand the basics of material properties:*	
		- Define and explain fundamental concepts related to material properties, including stress,	
2	C207.2	Perform material testing techniques:*	
		- Demonstrate proficiency in conducting experiments to determine material properties through tests such as tension, compression, and shear tests.	
3	C207.3	*Analyze stress and strain distributions:*	
		- Apply theoretical principles to analyze and interpret stress and strain distributions in various structural elements under different loading conditions.	
4	C207.4	*Determine material behavior under different loads:*	
		- Predict and explain the behavior of materials under axial, torsional, and flexural loading conditions.	
5	C207.5	Utilize testing equipment and instruments:*	
		- Operate and understand the use of various testing equipment and instruments commonly used in Strength of Materials Lab, such as universal testing machines, strain gauges, and	



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DEPARTMENT OF CIVIL ENGINEERING


Department: Department of Civil Engineering				
Academic Year: 2022-2023		Year:II Semester:II	Course: FLUID MECHANICS AND HYDRAULIC MACHINERY LAB	Regulation:R20
S.No.	Course Outcomes	Description		
1	C208.1	Understanding Fundamental Principles: * - Demonstrate a solid understanding of fundamental principles and concepts related to fluid mechanics.- Apply the principles of fluid statics and dynamics to analyze various fluid systems.		
2	C208.2	*Experimental Techniques: * - Develop proficiency in using experimental techniques and laboratory equipment for fluid flow measurements.		
3	C208.3	*Hydraulic Machinery Analysis: * - Analyze and evaluate the performance characteristics of hydraulic machines, such as pumps and turbines. - Apply theoretical knowledge to predict and interpret the behavior of hydraulic machinery.		
4	C208.4	Fluid Flow Visualization: * - Demonstrate the ability to visualize and interpret fluid flow patterns using experimental methods. - Understand and apply flow visualization techniques to different fluid systems.		
5	C208.5	*Data Analysis and Interpretation: * - Acquire skills in collecting, analyzing, and interpreting experimental data related to fluid mechanics.		



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Department: Department of Civil Engineering			
Academic Year: 2022-2023		Year: II Semester: II	Course: Skill oriented course* Regulation: R20
S.No.	Course Outcomes	Description	
1	C209.1	*Structural Analysis and Design:* - Ability to analyze and design structures using various materials. - Proficiency in using structural analysis software. - Understanding of different types of loads and their effects on structures.	
2	C209.2	*Geotechnical Engineering:* - Knowledge of soil mechanics and foundation engineering principles. - Capability to conduct site investigations and soil testing. - Design proficiency for shallow and deep foundations.	
3	C209.3	Transportation Engineering:* - Understanding of transportation planning and design. - Ability to design and analyze transportation systems and infrastructure. - Knowledge of traffic engineering principles.	
4	C209.4	*Environmental Engineering:* - Proficiency in water and wastewater treatment design. - Understanding of air and noise pollution control measures. - Knowledge of environmental impact assessment.	
5	C209.5	Construction Management:* - Project planning and scheduling skills. - Budgeting and cost estimation proficiency. - Knowledge of construction laws and regulations.	

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Department: Department of Civil Engineering				
Academic Year: 2022-2023		Year: III Semester: I	Course: Professional Core courses (STRUCTURAL ANALYSIS)	Regulation: R20
S.No.	Course Outcomes	Description		
1	C301.1	Distinguish between the determinate and indeterminate structures.		
2	C301.2	Identify the behavior of structures due to the expected loads, including the moving loads, acting on the structure.		
3	C301.3	Estimate the bending moment and shear forces in beams for different fixity conditions.		
4	C301.4	Analyze the continuous beams using various methods -, three moment method, slope deflection method, energy theorems.		
5	C301.5	Draw the influence line diagrams for various types of moving loads on beams/bridges.		

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Department: Department of Civil Engineering				
Academic Year: 2022-2023		Year: III Semester: I	Course: DESIGN AND DRAWING OF REINFORCED CONCRETE	Regulation: R20
S.No.	Course Outcomes	Description		
1	C302.1	Work on different types of design methods		
2	C302.2	Carryout analysis and design of flexural members and detailing		
3	C302.3	Design structures subjected to shear, bond and torsion		
4	C302.4	Design different type of compression members and footings		
5	C302.5	Equip student with design of members in flexural and shear		


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DEPARTMENT OF CIVIL ENGINEERING

Department: Department of Civil Engineering				
Academic Year: 2022-2023		Year: III Semester: I	Course: GEOTECHNICAL ENGINEERING - I	Regulation: R20
S.No.	Course Outcomes	Description		
1	C303.1	The student must know the definition of the various quantities related to soil mechanics and		
2	C303.2	The student should be able to know the methods of determination of the various index properties of		
3	C303.3	The student should be able to know the importance of the different engineering properties		
4	C303.4	The student should be able to apply the above concepts in day-to-day civil engineering practice.		
5	C303.5	To impart the principles of compaction and consolidation of soils and determine the magnitude and the rate of consolidation		

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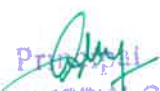
Department: Department of Civil Engineering				
Academic Year: 2022-2023		Year: III Semester: I	Course: REMOTE SENSING AND GIS	Regulation: R20
S.No.	Course Outcomes	Description		
1	C304.1	Be familiar with ground, air and satellite-based sensor platforms.		
2	C304.2	Interpret the aerial photographs and satellite imageries		
3	C304.3	Create and input spatial data for GIS application		
4	C304.4	Apply RS and GIS concepts for application in Civil Engineering.		
5	C304.5	appreciate application of RS and GIS to Civil Engineering		


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Department: Department of Civil Engineering			
Academic Year: 2022-2023		Year: III Semester: I	Course: GEOTECHNICAL ENGINEERING LAB Regulation: R20
S.No.	Course Outcomes	Description	
1	C305.1	Determine index properties of soil and classify them.	
2	C305.2	Determine permeability of soils.	
3	C305.3	Determine Compaction, Consolidation and shear strength characteristics.	
4	C305.4	To determine shear parameters of soil through different laboratory tests.	
5	C305.5	To impart knowledge of determination of index properties required for classification of soils	


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Department: Department of Civil Engineering			
Academic Year: 2022-2023		Year: III Semester: II	Course: Professional Core courses (DESIGN AND DRAWING OF STEEL STRUCTURES)
		Regulation: R20	
S.No.	Course Outcomes	Description	
1	C306.1	Work with relevant IS codes	
2	C306.2	Carry out analysis and design of flexural members and detailing	
3	C306.3	Design compression members of different types with connection detailing	
4	C306.4	Design Plate Girder and Gantry Girder with connection detailing	
5	C306.5	Produce the drawings pertaining to different components of steel structures	

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Department: Department of Civil Engineering			
Academic Year: 2022-2023		Year: III Semester: II	Course: WATER RESOURCES ENGINEERING
		Regulation: R20	
S.No.	Course Outcomes	Description	
1	C307.1	Have a thorough understanding of the theories and principles governing the hydrologic processes	
2	C307.2	Be able to quantify hydrologic components and apply concepts in hydrologic design of water resources projects.	
3	C307.3	Develop Intensity-Duration-Frequency and Depth-Area Duration curves to design hydraulic	
4	C307.4	Develop design storms and carry out frequency analysis.	
5	C307.5	Develop flow mass curve and flow duration curve, apply hydrograph analysis in the design of water resources projects	


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Department: Department of Civil Engineering			
Academic Year: 2022-2023		Year: III Semester: II	Course: GEOTECHNICAL ENGINEERING – II
		Regulation: R20	
S.No.	Course Outcomes	Description	
1	C308.1	The student must be able to understand the various types of shallow foundations and decide on their location based on soil characteristics	
2	C308.2	The student must be able to compute the magnitude of foundation settlement and decide on the size of the foundation accordingly.	
3	C308.3	The student must be able to use the field test data and arrive at the bearing capacity	
4	C308.4	The student must be able to apply the principles of bearing capacity of piles and design them accordingly.	
5	C308.5	To enable the student to imbibe the concepts of pile foundations and determine their load carrying capacity.	

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Department: Department of Civil Engineering			
Academic Year: 2022-2023		Year: III Semester: II	Course: - ESTIMATION, COSTING AND CONTRACTS LAB
		Regulation: R20	
S.No.	Course Outcomes	Description	
1	C309.1	The student should be able to determine the quantities of different components of buildings.	
2	C309.2	The student should be in a position to find the cost of various building components.	
3	C309.3	The student should be capable of finalizing the value of structures.	
4	C309.4	Understand the rate analysis of different quantities of the buildings components.	
5	C309.5	Understand the quantity calculations of different components of the buildings.	

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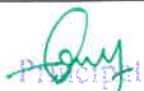
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Department: Department of Civil Engineering			
Academic Year: 2022-2023		Year: III Semester: II	Course: REMOTE SENSING & GIS LAB Regulation: R20
S.No.	Course Outcomes	Description	
1	C310.1	Work comfortably on GIS software	
2	C310.2	Digitize and create thematic map and extract important features	
3	C310.3	Develop digital elevation model	
4	C310.4	Interpretation and Estimation of features from satellite imagery.	
5	C310.5	Analyze and Modelling using GIS software.	

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Department: Department of Civil Engineering			
Academic Year: 2022-2023		Year: III Semester: II	Course: ROAD SAFETY ENGINEERING Regulation: R20
S.No.	Course Outcomes	Description	
1	C311.1	To understand fundamental of Traffic Engineering	
2	C311.2	To investigate & determine the collective factors & remedies of accident involved.	
3	C311.3	To design & planning various road geometrics.	
4	C311.4	To massage the traffic system from road safety point of view.	
5	C311.5	The various traffic management systems for safety & safety improvement strategies are dealt.	


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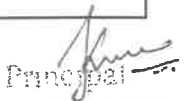
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Department: Department of Civil Engineering				
Academic Year: 2022-2023		Year: VI Semester: I	Course: BRIDGE ENGINEERING	Regulation: R19
S.No.	Course Outcomes	Description		
1	C312.1	Explain different types of Bridges with diagrams and Loading standards		
2	C312.2	Carryout analysis and design of Slab bridges, T Beam bridges, Box culvers and suggest structural detailing		
3	C312.3	Carryout analysis and design of Plate girder bridges		
4	C312.4	Organize for attending inspections and maintenance of bridges and prepare reports.		
5	C312.5	Understand concepts of design of Plate Girder Bridges		

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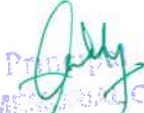
Department: Department of Civil Engineering				
Academic Year: 2022-2023		Year VI Semester: I	Course: GROUND IMPROVEMENT TECHNIQUES	Regulation: R19
S.No.	Course Outcomes	Description		
1	C401.1	By the end of the course, the student should be able to possess the knowledge of various methods		
2	C401.2	The student should be in a position to design a reinforced earth embankment and check its		
3	C401.3	The student should know the various functions of Geo synthetics and their applications in Civil		
4	C401.4	The student should be able to understand the concepts and applications of grouting		
5	C401.5	To enable the students to know how geotextiles and geo synthetics can be used to improve the engineering performance of soils.		

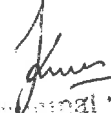

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Department: Department of Civil Engineering				
Academic Year: 2022-2023		Year: VI Semester: II	Course: URBAN HYDROLOGY	Regulation: R19
S.No.	Course Outcomes	Description		
1	C402.1	develop intensity duration frequency curves for urban drainage systems		
2	C402.2	Develop design storms to size the various components of drainage systems.		
3	C402.3	Apply best management practices to manage urban flooding.		
4	C402.4	Prepare master drainage plan for an urbanized area.		
5	C402.5	understand the concepts in design of various components of urban drainage systems		


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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	

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

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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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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING			
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	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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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING				
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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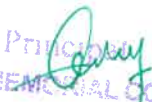

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AcademicYear:2022-2023		Year:I Semester: II	Course: DATA STRUCTURES THROUGH C
		Regulation:R20	
S.No.	Course Outcomes	Description	
1	C108.1	data structures concepts with arrays, stacks, queues.	
2	C108.2	linked lists for stacks, queues and for other 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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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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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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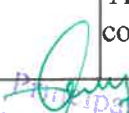

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AcademicYear:2022-2023		Year:II Semester: II	Course: PYTHON PROGRAMMING
		Regulation:R20	
S.No.	Course Outcomes	Description	
1	C206.1	Develop essential programming skills in computer programming concepts like data types, containers	
2	C206.2	Apply 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 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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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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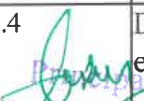
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AcademicYear:2022-2023		Year:III Semester: I	Course: POWER ELECTRONICS
		Regulation:R20	
S.No.	Course Outcomes	Description	
1	C302.1	Illustrate the static and dynamic characteristics of SCR, Power-MOSFET and Power-IGBT.	
2	C302.2	Analyse the operation 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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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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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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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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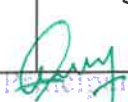

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AcademicYear:2022-2023		Year:IV Semester: I	Course: SWITCHGEAR AND PROTECTION
		Regulation:R19	
S.No.	Course Outcomes	Description	
1	C401.1	understand the principles of arc interruption for application to high voltage circuit breakers of air, oil, 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	<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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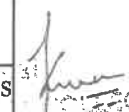
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Academic Year: 2022-2023		Year: IV Semester: I	Course: RENEWABLE ENERGY SYSTEMS
		Regulation: R19	
S.No.	Course Outcomes	Description	
1	C403.1	analyze solar radiation data, extraterrestrial radiation, and radiation on earth's surface.	
2	C403.2	design 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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Academic Year: 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 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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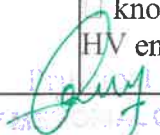

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AcademicYear:2022-2023		Year:IV Semester: II	Course: NEURAL NETWORKS AND FUZZY LOGIC
		Regulation:R19	
S.No.	Course Outcomes	Description	
1	C406.1	know different models of artificial neuron & Use learning methods of ANN.	
2	C406.2	use different paradigms 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	

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING			
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	<input type="checkbox"/> acquaint with the techniques of generation of AC,DC and Impulse voltages.	
3	C407.3	<input type="checkbox"/> apply knowledge for measurement of high AC,DC, Impulse voltages and currents.	
4	C407.4	<input type="checkbox"/> be in a position to measure dielectric property of materials used in HV equipment.	
5	C407.5	<input type="checkbox"/> know the testing techniques of various equipments used in HV engineering.	


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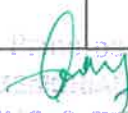

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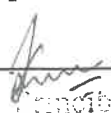
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING			
AcademicYear:2022-2023	Year:IV Semester: II	Course: POWER SYSTEM OPERATION AND CONTROL	Regulation:R19
S.No.	Course Outcomes	Description	
1	C408.1	compute optimal scheduling of Generators.	
2	C408.2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

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

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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DEPARTMENT OF MECHANICAL ENGINEERING

DEPARTMENT OF MECHANICAL ENGINEERING				
AcademicYear:2022-2023		Year: I Semester: I	Course: M-1	Regulation: R20
S.No.	Course Outcomes	Description		
1	C101.1	Utilize mean value theorems to real life problems (L3)		
2	C101.2	Solve the differential equations related to various engineering fields (L3)		
3	C101.3	Familiarize with functions of several variables which is useful in optimization (L3)		
4	C101.4	Apply double integration techniques in evaluating areas bounded by region (L3)		
5	C101.5	Students will also learn important tools of calculus in higher dimensions. Students will become familiar with 2- dimensional and 3- dimensional coordinate systems(L5)		

DEPARTMENT OF MECHANICAL ENGINEERING

DEPARTMENT OF MECHANICAL ENGINEERING				
AcademicYear:2022-2023		Year: I Semester: I	Course:Engg. Physics	Regulation: R20
S.No.	Course Outcomes	Description		
1	C102.1	The need of coherent sources and the conditions for sustained interference (L2)		
2	C102.2	The basic concepts of LASER light Sources (L2)		
3	C102.3	He concept of dielectric constant and polarization in dielectric materials (L2)		
4	C102.4	How sound is propagated in buildings (L2)		
5	C102.5	Various crystals systems (L2)		

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DEPARTMENT OF MECHANICAL ENGINEERING

DEPARTMENT OF MECHANICAL ENGINEERING			
Academic Year: 2022-2023		Year: I Semester: I	Course: Programming for problem solving using C
			Regulation: R20
S.No.	Course Outcomes	Description	
1	C103.1	To learn about the computer systems, computing environments, developing of a computer program and Structure of a C Program	
2	C103.2	To gain knowledge of the operators, selection, control statements and repetition in C	
3	C103.3	To learn about the design concepts of arrays, strings, enumerated structure and union types. To learn about their usage.	
4	C103.4	To assimilate about pointers, dynamic memory allocation and know the significance of Preprocessor	
5	C103.5	To assimilate about File I/O and significance of functions	

DEPARTMENT OF MECHANICAL ENGINEERING


DEPARTMENT OF MECHANICAL ENGINEERING			
Academic Year: 2022-2023		Year: I Semester: I	Course: Communicative English
			Regulation: R20
S.No.	Course Outcomes	Description	
1	C104.1	Understand social or transactional dialogues spoken by native speakers of English and identify the context, topic, and pieces of specific information	
2	C104.2	Ask and answer general questions on familiar topics and introduce oneself/others	
3	C104.3	Employ suitable strategies for skimming and scanning to get the general idea of a text and locate specific information	
4	C104.4	Recognize paragraph structure and be able to match beginnings/endings/headings with paragraphs	
5	C104.5	Form sentences using proper grammatical structures and correct word forms	

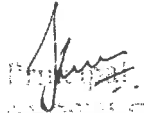
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DEPARTMENT OF MECHANICAL ENGINEERING

DEPARTMENT OF MECHANICAL ENGINEERING			
Academic Year: 2022-2023		Year: I Semester: I	Course: Programming for problem solving using C laboratory
		Regulation: R20	
S.No.	Course Outcomes	Description	
1	C105.1	Gains Knowledge on various concepts of a C language.	
2	C105.2	Able to draw flowcharts and write algorithms.	
3	C105.3	Able design and development of C problem solving skills.	
4	C105.4	Able to design and develop modular programming skills.	
5	C105.5	Able to trace and debug a program	


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DEPARTMENT OF MECHANICAL ENGINEERING

DEPARTMENT OF MECHANICAL ENGINEERING			
Academic Year: 2022-2023		Year: I Semester: II	Course: Linear Algebra & Numerical Methods (M-II) Regulation: R20
S.No.	Course Outcomes	Description	
1	C106.1	develop the use of matrix algebra techniques that is needed by engineers for practical applications(L6)	
2	C106.2	solve system of linear algebraic equations using Gauss elimination, Gauss Jordan, Gauss Seidel(L3)	
3	C106.3	evaluate the approximate roots of polynomial and transcendental equations by different algorithms (L5)	
4	C106.4	apply Newton's forward & backward interpolation and Lagrange's formulae for equal and unequal	
5	C106.5	apply numerical integral techniques to different Engineering problems (L3)	
6	C106.6	apply different algorithms for approximating the solutions of ordinary differential equations with initial conditions to its analytical computations (L3)	

DEPARTMENT OF MECHANICAL ENGINEERING

DEPARTMENT OF MECHANICAL ENGINEERING			
Academic Year: 2022-2023		Year: I Semester: II	Course: ENGINEERING CHEMISTRY Regulation: R20
S.No.	Course Outcomes	Description	
1	C107.1	Analyze the different types of composite plastic materials and interpret the mechanism of conduction in conducting polymers.	
2	C107.2	Utilize the theory of construction of electrodes, batteries and fuel cells in redesigning new engineering products and categorize the reasons for corrosion and study methods to control corrosion.	
3	C107.3	Synthesize nanomaterials for modern advances of engineering technology. Summarize the techniques that detect and measure changes of state of reaction.	
4	C107.4	Differentiate petroleum, petrol, synthetic petrol and have knowledge how they are produced	
5	C107.5	Analyze the suitable methods for purification and treatment of hard water and brackish water.	

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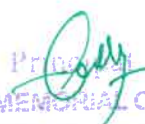
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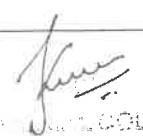
DEPARTMENT OF MECHANICAL ENGINEERING

Academic Year:2022-23		Year: I Semester: II	Course:Engineering mechanics	Regulation: R20
1	C108.1	The student should be able to draw free body diagrams for FBDs for particles and rigid bodies in plane and space and problems to solve the unknown forces, orientations and geometric parameters		
2	C108.2	He should be able to determine centroid for lines, areas and center of gravity for volumes and their composites.		
3	C108.3	He should be able to determine area and mass movement of inertia for composite sections		
4	C108.4	He should be able to analyze motion of particles and rigid bodies and apply the principles of motion, work energy and impulse – momentum		

DEPARTMENT OF MECHANICAL ENGINEERING

Academic Year:2022-23		Year: I Semester: II	Course:BASIC ELECTRICAL & ELECTRONICS ENGINEERING	Regulation: R20
1	C109.1	Analyze various electrical networks		
2	C109.2	Understand operation of DC generators,3-point starter and DC machine testing by Swinburne's Test and Brake test		
3	C109.3	Analyze performance of single-phase transformer and acquire proper knowledge and working of 3-phase alternator and 3-phase induction motors.		
4	C109.4	Analyze operation of half wave, full wave bridge rectifiers and OP-AMPS		
5	C109.5	Understanding operations of CE amplifier and basic concept of feedback amplifier		


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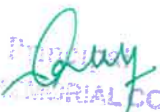
Academic Year:2022-23		Year: I Semester: II	Course: THERMODYNAMICS	Regulation: R20
1	C110.1	Basic concepts of thermodynamics		
2	C110.2	Laws of thermodynamics		
3	C110.3	Concept of entropy		
4	C110.4	Property evaluation of vapors and their depiction in tables and charts		
5	C110.5	Evaluation of properties of perfect gas mixtures.		

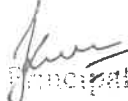
DEPARTMENT OF MECHANICAL ENGINEERING

Academic Year 2022-23		Year: I Semester: II	Course: BASIC ELECTRICAL & ELECTRONICS ENGINEERING LAB	Regulation: R20
1	C111.1	Compute the efficiency of DC shunt machine without actual loading of the machine.		
2	C111.2	Estimate the efficiency and regulation at different load conditions and power factors for single phase transformer with OC and SC tests.		
3	C111.3	Analyze the performance characteristics and to determine efficiency of DC shunt motor & 3-Phase induction motor.		
4	C111.4	Pre-determine the regulation of an alternator by synchronous impedance method		
5	C111.5	Control the speed of dc shunt motor using Armature voltage and Field flux control methods		
6	C111.1	Draw the characteristics of PN junction diode & transistor Determine the ripple factor of half wave & full wave rectifiers.		

DEPARTMENT OF MECHANICAL ENGINEERING

Academic Year 2022-23		Year: I Semester: II	Course: CONSTITUTION OF INDIA	Regulation: R20
1	C112.1	Understand historical background of the constitution making and its importance for building a democratic India		
2	C112.2	Understand the functioning of three wings of the government ie., executive, and judiciary		
3	C112.3	Understand the value of the fundamental rights and duties for becoming good citizen of India.		
4	C112.4	Analyze the decentralization of power between central, state and local self-government.		
5	C112.5	Apply the knowledge in strengthening of the constitutional institutions like		
6	C112.1	Draw the characteristics of PN junction diode & transistor Determine the ripple factor of half wave & full wave rectifiers.		


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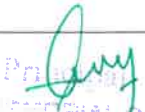

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DEPARTMENT OF MECHANICAL ENGINEERING

Academic Year 2022-23		Year: II Semester: I	Course: VECTOR CALCULUS FOURIER TRANSFORMS and PDE (M-III)	Regulation: R20
1	C201.1	Interpret the physical meaning of different operators such as gradient, curl and divergence (L5)		
2	C201.2	Estimate the work done against a field, circulation and flux using vector calculus (L5)		
3	C201.3	Apply the Laplace transform for solving differential equations (L3)		
4	C201.4	Find or compute the Fourier series of periodic signals (L3)		
5	C201.5	know and be able to apply integral expressions for the forwards and inverse Fourier transform to a range of non-periodic waveforms (L3)		
6	C201.6	Identify solution methods for partial differential equations that model physical processes (L3).		

DEPARTMENT OF MECHANICAL ENGINEERING

Academic Year 2022-23		Year: II Semester: I	Course: MECHANICS OF SOLIDS	Regulation: R20
1	C202.1	Model & Analyze the behavior of basic structural members subjected to various loading and support conditions based on principles of equilibrium.		
2	C202.2	Understand the apply the concept of stress and strain to analyze and design structural members and machine parts under axial, shear and bending loads, moment and torsional moment.		
3	C202.3	Students will learn all the methods to analyze beams, columns, frames for normal, shear, and torsion stresses and to solve deflection problems in preparation for the design of such structural components. Students are able to analyze beams and draw correct and complete shear and bending moment diagrams forbeams		
4	C202.4	Students attain a deeper understanding of the loads, stresses, and strains acting on a structure and their relations in the elastic behavior		
5	C202.5	Design and analysis of Industrial components like pressure vessels.		


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DEPARTMENT OF MECHANICAL ENGINEERING

Academic Year 2022-23		Year: II Semester: I	Course :FLUID MECHANICS & HYDRAULIC MACHINES	Regulation: R20
1	C203.1	The basic concepts of fluid properties.		
2	C203.2	The mechanics of fluids in static and dynamic conditions.		
3	C203.3	Boundary layer theory, flow separation and dimensional analysis. CO4: Hydrodynamic forces of jet on vanes in different positions.		
4	C203.4	Working Principles and performance evaluation of hydraulic pump and turbines		
5	C203.5	The basic concepts of fluid properties.		

DEPARTMENT OF MECHANICAL ENGINEERING

Academic Year 2022-23		Year: II Semester: I	Course: PRODUCTION TECHNOLOGY	Regulation: R20
1	C204.1	Able to design the patterns and core boxes for metal casting processes CO2: Able to design the gating system for different metallic components CO3: Know the different types of manufacturing processes		
2	C204.2	Be able to use forging, extrusion processes		
3	C204.3	Learn about the different types of welding processes used for special fabrication		
4	C204.4	Able to design the patterns and core boxes for metal casting processes CO2: Able to design the gating system for different metallic components CO3: Know the different types of manufacturing processes		
5	C204.5	Be able to use forging, extrusion processes		

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DEPARTMENT OF MECHANICAL ENGINEERING

Academic Year 2022-23		Year: II Semester: I	Course: KINEMATICS OF MACHINERY	Regulation: R20
1	C205.1	Contrive a mechanism for a given plane motion with single degree of freedom.		
2	C205.2	Suggest and analyze a mechanism for a given straight line motion and automobile steering motion.		
3	C205.3	Suggest and analyze mechanisms for a prescribed intermittent motion like opening and closing of IC engine valves etc.		
4	C205.4	Select a power transmission system for a given application and analyze motion of different transmission systems		
5	C205.5	Analyze the motion (velocity and acceleration) of a plane mechanism.		

DEPARTMENT OF MECHANICAL ENGINEERING

Academic Year 2022-23		Year: II Semester: I	Course: COMPUTER AIDED ENGINEERING DRAWING PRACTICE	Regulation: R20
1	C206.1	Student get exposed on working of sheet metal with help of development of surfaces		
2	C206.2	Student understands how to know the hidden details of machine components with the help of sections and interpenetrations of solids		
3	C206.3	Student shall exposed to modeling commands for generating 2D and 3D objects using computer aided drafting tools which are useful to create machine elements for computer aided analysis.		


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DEPARTMENT OF MECHANICAL ENGINEERING

Academic Year 2022-23		II Year - II Semester	Course: MATERIALS SCIENCE & METALLURGY	Regulation: R20
1	C207.1	Understand the crystalline structure of different metals and study the stability of phases in different alloy systems.		
2	C207.2	Study the behavior of ferrous and non ferrous metals and alloys and their application in different domains		
3	C207.3	Able to understand the effect of heat treatment, addition of alloying elements on properties of ferrous metals.		
4	C207.4	Grasp the methods of making of metal powders and applications of powder metallurgy Comprehend the properties and applications of ceramic, composites and other advanced methods.		
5	C207.5	Understand the crystalline structure of different metals and study the stability of phases in different alloy systems.		

DEPARTMENT OF MECHANICAL ENGINEERING

Academic Year 2022-23		II Year - II Semeste	Course: COMPLEX VARIABLES AND STATISTICAL METHODS	Regulation: R20
1	C208.1	infer the statistical inferential methods based on small and large sampling tests		
2	C208.2	apply Cauchy-Riemann equations to complex functions in order to determine whether a given continuous function is analytic (L3)		
3	C208.3	find the differentiation and integration of complex functions used in engineering problems (L5)		
4	C208.4	make use of the Cauchy residue theorem to evaluate certain integrals (L3)		
5	C208.5	apply discrete and continuous probability distributions (L3)		


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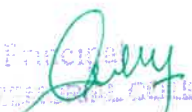

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DEPARTMENT OF MECHANICAL ENGINEERING

Academic Year 2022-23		II Year - II Semester	Course: DYNAMICS OF MACHINERY	Regulation: R20
1	C209.1	To determine the natural frequencies of discrete systems undergoing longitudinal, torsional and transverse vibrations		
2	C209.2	To compute the frictional losses and transmission in clutches, brakes and dynamometers		
3	C209.3	To determine the effect of gyroscopic couple in motor vehicles, ships and aeroplanes		
4	C209.4	To analyze the forces in four bar and slider crank mechanisms and design a flywheel		
5	C209.5	To determine the rotary unbalanced mass in reciprocating equipment		
6	C209.1	To determine the unbalanced forces and couples in reciprocating and radial engines		

DEPARTMENT OF MECHANICAL ENGINEERING

Academic Year 2022-23		II Year - II Semester	Course: THERMAL ENGINEERING - I	Regulation: R20
1	C210.1	Derive the actual cycle from fuel-air cycle and air- standard cycle for all practical applications.		
2	C210.2	Explain combustion phenomenon of CI and SI engines and their impact on engine variables. Analyze the performance of an IC engine based on the performance parameters.		
3	C210.3	Derive the actual cycle from fuel-air cycle and air- standard cycle for all practical applications. Explain working principle and various components of IC engine		
4	C210.4	Explain combustion phenomenon of CI and SI engines and their impact on engine variables. Analyze the performance of an IC engine based on the performance parameters.		
5	C210.5	Derive the actual cycle from fuel-air cycle and air- standard cycle for all practical applications.		


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DEPARTMENT OF MECHANICAL ENGINEERING

Academic Year 2022-23		II Year – II Semester	Course: INDUSTRIAL ENGINEERING AND MANAGEMENT	Regulation: R20
1	C211.1	Design and conduct experiments, analyse, interpret data and synthesize valid conclusions		
2	C211.2	Design a system, component, or process, and synthesize solutions to achieve desired needs		
3	C211.3	Use the techniques, skills, and modern engineering tools necessary for engineering practice with appropriate considerations for public health and safety, cultural, societal, and environmental constraints		
4	C211.4	Function effectively within multi-disciplinary teams and understand the fundamental precepts of effective project management		

DEPARTMENT OF MECHANICAL ENGINEERING


Academic Year 2022-23		II Year - II Semester	Course: MACHINE DRAWING PRACTICE	Regulation: R20
1	C212.1	Draw and represent standard dimensions of different mechanical fasteners and joints and Couplings.		
2	C212.2	Draw different types of bearings showing different components.		
3	C212.3	Assemble components of a machine part and draw the sectional assembly drawing showing the dimensions of all the components of the assembly as per bill of materials		
4	C212.4	Select and represent fits and geometrical form of different mating parts in assembly drawings. To prepare manufacturing drawings indicating fits, tolerances, surface finish and surface treatment requirements		
5	C212.5	Draw and represent standard dimensions of different mechanical fasteners and joints and Couplings.		


DEPARTMENT OF MECHANICAL ENGINEERING

Academic Year 2022-23		III Year-I Semester	Course: thermal engineering-2	Regulation: R20
1	C301.1	Explain the basic concepts of thermal engineering and boilers.		
2	C301.2	Discuss the concepts of steam nozzles and steam turbines.		
3	C301.3	Gain knowledge about the concepts of reaction turbine and steam condensers.		
4	C301.4	Discuss the concepts of reciprocating and rotary type of compressors.		
5	C301.5	Acquire knowledge about the centrifugal and axial flow compressors.		

DEPARTMENT OF MECHANICAL ENGINEERING

Academic Year 2022-23		III Year-I Semester	Course: DESIGN OF MACHINE MEMBERS-I	Regulation: R20
1	C302.1	Judge about materials and their properties along with manufacturing considerations.		
2	C302.2	Gain knowledge about the strength of machine elements.		
3	C302.3	Apply the knowledge in designing the riveted and welded joints, keys,		
4	C302.4	cotters and knuckle joints.		
5	C302.5	Apply the knowledge in designing the shafts and shaft couplings.		


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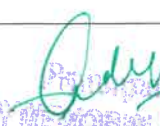

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DEPARTMENT OF MECHANICAL ENGINEERING

Academic Year 2022-23		III Year-I Semester	Course: MACHINING, MACHINE TOOLS & METROLOGY	Regulation: R20
1	C303.1	Discuss the concepts of machining processes.		
2	C303.2	Apply the principles of lathe, shaping, slotting and planning machines.		
3	C303.3	Apply the principles of drilling, milling and boring processes.		
4	C303.4	Analyze the concepts of finishing processes and the system of limits and fits.		
5	C303.5	Learn the concepts of surface roughness and optical measuring instruments.		

DEPARTMENT OF MECHANICAL ENGINEERING

Academic Year 2022-23		III Year-I Semester	Course: SUSTAINABLE ENERGY TECHNOLOGIES	Regulation: R20
1	C304.1	Explain the importance of solar energy collection and storage.		
2	C304.2	Apply the principles of wind energy and biomass energy.		
3	C304.3	Analyze knowledge on geothermal and ocean energy.		
4	C304.4	Justify the knowledge about energy efficient systems.		
5	C304.5	Discuss the concepts of green manufacturing systems.		


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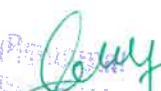

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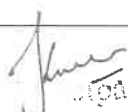
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Academic Year 2022-23		III Year-I Semester	Course: OPERATIONS RESEARCH	Regulation: R20
1	C305.1	Apply the basics of operations research and linear programming problems.		
2	C305.2	Apply the knowledge in solving problems of transportation, assignment and sequencing.		
3	C305.3	Apply the knowledge in solving problems of dynamic programming and simulation		
4	C305.4	Judge the replacement and game theories and apply the knowledge to solve problems.		
5	C305.5	Discuss the waiting line models and project management techniques.		

DEPARTMENT OF MECHANICAL ENGINEERING

Academic Year 2022-23		III Year-I Semester	Course: NANO TECHNOLOGY	Regulation: R20
1	C306.1	Explain about nano-structured materials and their applications.		
2	C306.2	Apply knowledge about the nano crystalline materials, their properties and defects.		
3	C306.3	Justify various techniques of nanofabrication.		
4	C306.4	Apply the tools to characterize nano materials.		
5	C306.5	Analyze the applications of nano materials		


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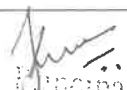
DEPARTMENT OF MECHANICAL ENGINEERING

Academic Year 2022-23		III Year-I Semester	Course: THERMAL MANAGEMENT OF ELECTRONIC SYSTEMS	Regulation: R20
1	C307.1	Apply the basics of heat transfer and analyze heat transfer through fins		
2	C307.2	Analyze the basics of convection and radiation modes of heat transfer.		
3	C307.3	Analyze knowledge about the thermal analysis of printed circuit boards and their cooling.		
4	C307.4	Explain the principles of two-phase cooling and heat pipes.		
5	C307.5	Justify knowledge about the thermoelectric coolers		

DEPARTMENT OF MECHANICAL ENGINEERING

Academic Year 2022-23		III Year-I Semester	Course: FINITE ELEMENT METHODS	Regulation: R20
1	C308.1	Apply basic principles of finite element methods.		
2	C308.2	Analyze about discretization principles and apply to analyse the trusses.		
3	C308.3	Apply the finite element method to analyze and solve beam problems.		
4	C308.4	Judge the knowledge about two dimensional stress analysis.		
5	C308.5	Apply steady state and dynamic analysis		


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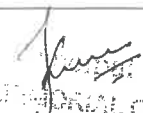
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Academic Year 2022-23		III Year-I Semester	Course: INDUSTRIAL ROBOTICS	Regulation: R20
1	C309.1	Perceive the concepts of robotics and its systems.		
2	C309.2	Apply knowledge about the motion analysis and manipulator kinematics.		
3	C309.3	Analyze the differential transformations.		
4	C309.4	Apply the basics about path description and generation.		
5	C309.5	Judge about the actuators, feedback components and robotic applications.		

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Academic Year 2022-23		III Year-I Semester	Course: ADVANCED MATERIALS	Regulation: R20
1	C310.1	Justify the knowledge about metals and alloys and their utility in different environments.		
2	C310.2	Judge about polymers and ceramics and their applications.		
3	C310.3	Analyze composite materials along with reinforcements and their applications.		
4	C310.4	Utilize shape memory alloys and functionally graded materials for different applications.		
5	C310.5	Justify about the nanomaterials and their applications		


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Academic Year 2022-23	III Year-I Semester	Course: RENEWABLE ENERGY SOURCES	Regulation: R20
1	C311.1	Explain the importance of, solar energy collection and storage.	
2	C311.2	Discuss the wind energy principles.	
3	C311.3	Analyze about biomass energy concepts.	
4	C311.4	Apply the principles of tidal energy.	
5	C311.5	Utilize the concepts of geothermal energy.	

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Academic Year 2022-23	III Year-I Semester	Course: Mechanics of composites	Regulation: R20
1	C312.1	Discuss the composite materials and their classification.	
2	C312.2	Apply the micro mechanical analysis of a lamina.	
3	C312.3	Learn about two dimensional angle lamina.	
4	C312.4	Apply the macro mechanical analysis of a lamina.	
5	C312.5	Utilize knowledge in designing the laminates	


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Academic Year 2022-23	III Year-I Semester	Course: PROFESSIONAL ETHICS AND HUMAN VALUES	Regulation: R20
1	C313.1	Judge the concepts of human values.	
2	C313.2	Justify knowledge about the principles of engineering ethics.	
3	C313.3	Interpret engineering as social experimentation.	
4	C313.4	Realize engineers' responsibility for safety and risk.	
5	C313.5	Learn about the engineers' rights and responsibilities	


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Academic Year 2022-23		III Year - II Semester	Course: HEAT TRANSFER	Regulation: R20
1	C314.1	Apply knowledge about mechanism and modes of heat transfer.		
2	C314.2	Understand the concepts of conduction and convective heat transfer.		
3	C314.3	Learn about forced and free convection.		
4	C314.4	Analyze the concepts of heat transfer with phase change and condensation along with heat exchangers		
5	C314.5	Interpret the knowledge about radiation mode of heat transfer		

DEPARTMENT OF MECHANICAL ENGINEERING

Academic Year 2022-23		III Year - II Semester	Course: DESIGN OF MACHINE MEMBERS-II	Regulation: R20
1	C315.1	Apply knowledge about the design of bearings.		
2	C315.2	Explain the concepts in designing various engine parts.		
3	C315.3	Utilize the knowledge to design curved beams and power screws.		
4	C315.4	Justify power transmission systems and to design pulleys and gear drives.		
5	C315.5	Apply the concepts in designing various machine tool elements		

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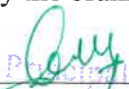
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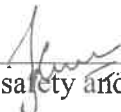
DEPARTMENT OF MECHANICAL ENGINEERING

Academic Year 2022-23		III Year - II Semester	Course: INTRODUCTION TO ARTIFICIAL INTELLIGENCE & MACHINE LEARNING	Regulation: R20
1	C316.1	Discuss basic concepts of artificial intelligence, neural networks and genetic algorithms.		
2	C316.2	Apply the principles of knowledge representation and reasoning.		
3	C316.3	Learn about bayesian and computational learning and machine learning.		
4	C316.4	Utilize various machine learning techniques.		
5	C316.5	Apply the machine learning analytics and deep learning techniques		

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Academic Year 2022-23		III Year - II Semester	Course: AUTOMOBILE ENGINEERING	Regulation: R20
1	C317.1	Discuss various components of four wheeler automobile.		
2	C317.2	Apply the knowledge of different parts of transmission system.		
3	C317.3	Judge about steering and suspension systems.		
4	C317.4	Justify the braking system and electrical system used in automobiles.		
5	C317.5	Analyze the concepts about engine specifications and service, safety and electronic		


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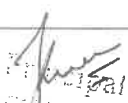
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Academic Year 2022-23		IV Year - I Semester	Course: INDUSTRIAL MANAGEMENT	Regulation: R19
1	C401.1	Upon successful completion of this course you should be able to		
2	C401.2	Design and conduct experiments, analyse, interpret data and synthesize valid conclusions		
3	C401.3	Design a system, component, or process, and synthesize solutions to achieve desired needs		
4	C401.4	Use the techniques, skills, and modern engineering tools necessary for engineering practice with appropriate considerations for public health and safety, cultural, societal, and environmental constraints		
5	C401.5	Function effectively within multi-disciplinary teams and understand the fundamental precepts of effective project management		

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Academic Year 2022-23		IV Year - I Semester	Course: FINITE ELEMENT METHODS	Regulation: R19
1	C402.1	Able to apply the FE procedure to field problems like heat transfer		
2	C402.2	Understand the concepts behind variational methods and weighted residual methods in FEM		
3	C402.3	Identify the application and characteristics of FEA elements such as bars, beams, plane and isoparametric elements, and 3-D element .		
4	C402.4	Develop element characteristic equation procedure and generate global equations.		
5	C402.5	Able to apply Suitable boundary conditions to global equations, and reduce it to a solvable form.		


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DEPARTMENT OF MECHANICAL ENGINEERING

Academic Year 2022-23		IV Year - I Semester	Course: RENEWABLE ENERGY SOURCES	Regulation: R19
1	C403.1	1) To understand the principles and working of solar, wind, biomass, geo thermal, ocean energies.		
2	C403.2	(2) To understand the principles and working and green energy systems and appreciate their		

DEPARTMENT OF MECHANICAL ENGINEERING

Academic Year 2022-23		IV Year - I Semester	Course: POWER PLANT ENGINEERING	Regulation: R19
1	C404.1	1) Understand various conventional methods of power generation		
2	C404.2	(2) To understand the principle of operation and performance of respective prime movers along with their		
3	C404.3	economics and their impact on environment.		

DEPARTMENT OF MECHANICAL ENGINEERING

Academic Year 2022-23		IV Year - II Semester	Course: ADDITIVE MANUFACTURING	Regulation: R19
1	C405.1	The student shall be able to identify the use of Rapid Prototyping Techniques in the manufacturing of complex components that are otherwise very difficult to manufacture.		

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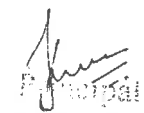
DEPARTMENT OF MECHANICAL ENGINEERING

Academic Year 2022-23		IV Year - II Semester	Course: NON - DESTRUCTIVE EVALUATION	Regulation: R19
1	C406.1	1. Comprehensive, theory based understanding of the techniques and methods of non		
2	C406.2	destructive testing		

DEPARTMENT OF MECHANICAL ENGINEERING

Academic Year 2022-23		IV Year - II Semester	Course: TOTAL QUALITY MANAGEMENT	Regulation: R19
1	C407.1	To realize the importance of significance of quality		
2	C407.2	Manage quality improvement teams		
3	C407.3	Identify requirements of quality improvement programs		


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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Department Of Electronics And Communication Engineering				
AcademicYear:2022-2023		Year:ISE mester: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		
	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		

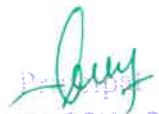
Department Of Electronics And Communication Engineering				
AcademicYear:2022-2023		Year: I Semester: I	Course: MATHEMATICS-1	Regulation:R20
S.No.	Course Outcomes	Description		
1	C102.1	Utilize mean value theorems to real life problems (L3)		
2	C102.2	Solve the differential equations related to various engineering fields (L3)		
3	C102.3	Familiarize with functions of several variables which is useful in optimization (L3)		
4	C102.4	Apply double integration techniques in evaluating areas bounded by region (L3)		
5	C102.5	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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Department Of Electronics And Communication Engineering				
AcademicYear:2022-2023		YEAR &SEM-1-I	Course: PP USING C	Regulation:R20
S.No.	Course Outcomes	Description		
1	C103.1	To write algorithms and to draw flowcharts for solving problems		
2	C103.2	To convert flowcharts/algorithms to C Programs, compile and debug programs		
3	C103.3	To use different operators, data types and write programs that use two-way/ multi- way selection		
4	C103.4	To select the best loop construct for a given problem		
5	C103.5	To design and implement programs to analyze the different pointer applications		

Department Of Electronics And Communication Engineering				
AcademicYear:2022-2023		Year: I Semester: I	Course: E .DRAWING	Regulation:R20
S.No.	Course Outcomes	Description		
1	C104.1	The student will learn how to visualize 2D & 3D objects		

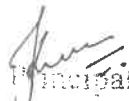

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Department Of Electronics And Communication Engineering				
AcademicYear:2022-2023		YEAR AND SEM=1-2	Course: MATHEMATICS-II	Regulation:R20
S.No.	Course Outcomes	Description		
1	C105.1	develop the use of matrix algebra techniques that is needed by engineers for practical applications (L6)		
2	C105.2	solve system of linear algebraic equations using Gauss elimination, Gauss Jordan, Gauss Seidel (L3)		
3	C105.3	evaluate the approximate roots of polynomial and transcendental equations by different algorithms (L5)		
4	C105.4	apply Newton's forward & backward interpolation and Lagrange's formulae for equal and unequal intervals (L3)		
5	C105.5	apply numerical integral techniques to different Engineering problems (L3)		


Department Of Electronics And Communication Engineering				
AcademicYear:2022-2023		YEAR AND SEM=1-2	Course: APPLIED PHYSICS	Regulation:R20
S.No.	Course Outcomes	Description		
1	C106.1	Explain the need of coherent sources and the conditions for sustained interference(L2)		
2	C106.2	Understand the basic concepts of LASER light Sources(L2)		
3	C106.3	Explain the concept of dual nature of matter(L2)		
4	C106.4	Explain the concept of dielectric constant and polarization in dielectric materials(L2)		
5	C106.5	Classify the energy bands of semiconductors(L2)		



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Department Of Electronics And Communication Engineering			
AcademicYear:2022-2023		YEAR AND SEM=1-2	Course: JAVA Regulation:R20
S.No.	Course Outcomes	Description	
1	C107.1	Show competence in the use of the Java programming language in the development of small to medium- sized application programs that demonstrate professionally acceptable coding and performance	
2	C107.2	Illustrate the basic principles of the object-orientedprogramming	
3	C107.3	Demonstrate an introductory understanding ofgraphical user interfaces, multithreaded programming, and event-drivenprogramming	

Department Of Electronics And Communication Engineering			
AcademicYear:2022-2023		YEAR AND SEM=1-2	Course: NETWORK ANALYSIS Regulation:R20
S.No.	Course Outcomes	Description	
1	C108.1	To understand the basic concepts on RLC circuits	
2	C108.2	To know the behavior of the steady states and transients states in RLC circuits.	
3	C108.3	To know the basic Laplace transforms techniques in periods' waveforms	
4	C108.4	To understand the two portent work parameters.	
5	C108.5	To understand the properties of LC network sand filters	


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AcademicYear:2022-2023		YEAR AND SEM=1-2	Course: BEEE Regulation:R20
S.No.	Course Outcomes	Description	
1	C109.1	Able to explain the operation of DC generator and analyze the characteristics of DC generator.	
2	C109.2	Able to explain the principle of operation of DC motor and analyze their characteristics. Acquire the skills to analyze the starting and speed control methods of DC motors	
3	C109.3	Ability to analyze the performance and speed – torque characteristics of a3- phase induction motor and understand starting methods of 3-phaseinductionmotor.	
4	C109.4	Able to explain the operation of Synchronous Machines	
5	C109.5	Capability to understand the operation of various special machines	


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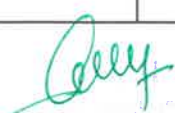

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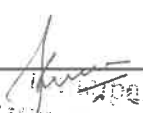
Department Of Electronics And Communication Engineering			
AcademicYear:2022-2023		YEAR AND SEM=2-1	Course: EDC Regulation:R20
S.No.	Course Outcomes	Description	
1	C201.1	Apply the basic concepts of semiconductor physics.	
2	C201.2	Understand the formation of p-n junction and how it can be used as ap- n junction as diode indifferent modes of operation	
3	C201.3	Knowtheconstruction,workingprincipleofrectifierswithan dwithoutfilterswi threlevant expressions and necessary comparisons	
4	C201.4	Understand the construction, principle of operation of transistors, BJTand FET with the irIcharacteristicsindifferentconfigurations.	
5	C201.5	Know the need of transistor biasing, various biasing techniques for BJT and FET and stabilization concepts with necessary expressions	

Department Of Electronics And Communication Engineering			
AcademicYear:2022-2023		YEAR AND SEM=2-1	Course: STLD Regulation:R20
S.No.	Course Outcomes	Description	
1	C202.1	Classify different number systems and apply to generate various codes	
2	C202.2	Use the concept of Boolean algebra in minimization of switching functions	
3	C202.3	Design different types of combinational logic circuits	
4	C202.4	Apply knowledge of flip-flops in designing of Registers and counters	
5	C202.5	The operation and design methodology for synchronous sequential circuit sand algorithmic state machines	

Department Of Electronics And Communication Engineering			
AcademicYear:2022-2023		YEAR AND SEM=2-1	Course: SS Regulation:R20
S.No.	Course Outcomes	Description	
1	C203.1	Differentiate the various classifications of signals and systems	
2	C203.2	Analyze the frequency domain representation of signals using Fourier concepts	
3	C203.3	Classify the systems based on their properties and determine the response of LTI Systems.	
4	C203.4	Know the sampling process and various types of sampling techniques.	
5	C203.5	Apply Laplace and z-transforms to analyze signals and Systems (continuous&discrete).	

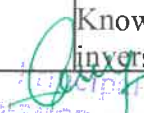
Department Of Electronics And Communication Engineering			
AcademicYear:2022-2023		YEAR AND SEM=2-1	Course:RVSP Regulation:R20
S.No.	Course Outcomes	Description	
1	C204.1	Mathematically model the random phenomena and solve simple probabilistic problems	
2	C204.2	Identify different types of random variables and compute statistical averages of the random variables	
3	C204.3	Characterize the random processes in the time and frequency domains	
4	C204.4	Analyze the LTI systems with random inputs	

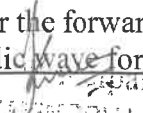

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Department Of Electronics And Communication Engineering			
AcademicYear:2022-2023		YEAR AND SEM=2-1	Course: MATHEMATICS-III Regulation:R20
S.No.	Course Outcomes	Description	
1	C205.1	Interpret the physical meaning of different operators such as gradient, curl and divergence (L5)	
2	C205.1	Estimate the work done against a field, circulation and flux using vector calculus (L5)	
3	C205.2	Apply the Laplace transform for solving differential equations (L3)	
4	C205.3	Find or compute the Fourier series of periodic signals (L3)	
5	C205.4	Know and be able to apply integral expressions for the forwards and inverse Fourier transform to arrange of non-periodic wave forms (L3)	

Department Of Electronics And Communication Engineering			
AcademicYear:2022-2023		YEAR AND SEM=2-1	Course: MATHEMATICS-III Regulation:R20
S.No.	Course Outcomes	Description	
1	C206.1	Interpret the physical meaning of different operators such as gradient, curl and divergence (L5)	
2	C206.2	Estimate the work done against a field, circulation and flux using vector calculus (L5)	
3	C206.3	Apply the Laplace transform for solving differential equations (L3)	
4	C206.4	Find or compute the Fourier series of periodic signals (L3)	
5	C206.5	Know and be able to apply integral expressions for the forwards and inverse Fourier transform to arrange of non-periodic wave forms (L3)	


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Department Of Electronics And Communication Engineering			
AcademicYear:2022-2023		YEAR AND SEM=2-2	Course: ECA Regulation:R20
S.No.	Course Outcomes	Description	
1	C207.1	Design and analysis of small signal high frequency transistor amplifier using BJT and FET.	
2	C207.2	Design and analysis of multistage amplifiers using BJT and FET and Differential amplifier using BJT	
3	C207.3	Derive the expressions for frequency of oscillation and condition for oscillation of RC and LC oscillators and their amplitude and frequency stability concept.	
4	C207.4	Know the classification of the power and tuned amplifiers and their analysis with performance comparison	

Department Of Electronics And Communication Engineering			
AcademicYear:2022-2023		YEAR AND SEM=2-2	Course: DICD Regulation:R20
S.No.	Course Outcomes	Description	
1	C208.1	Understand the structure of commercially available digital integrated circuit families	
2	C208.2	Learn the IEEE Standard 1076 Hardware Description Language (VHDL).	
3	C208.3	Model complex digital systems at several levels of abstractions, behavioral, structural, and rapid system prototyping.	
4	C208.4	Analyze and design basic digital circuits with combinatorial and sequential logic circuits using VHDL	

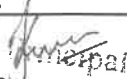
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Department Of Electronics And Communication Engineering			
AcademicYear:2022-2023		YEAR AND SEM=2-2	Course: AC Regulation:R20
S.No.	Course Outcomes	Description	
1	C209.1	Differentiate various Analog modulation and demodulation schemes and their spectral characteristics	
2	C209.2	Analyze noise characteristics of various analog modulation methods	
3	C209.3	Analyze various functional blocks of radiotransmitters and receivers	
4	C209.4	Design simple analog systems for various modulation techniques	

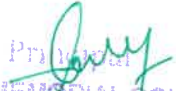
Department Of Electronics And Communication Engineering			
AcademicYear:2022-2023		YEAR AND SEM=2-2	Course: LCS Regulation:R20
S.No.	Course Outcomes	Description	
1	C210.1	This course introduces the concepts of feedback and its advantages to various control systems	
2	C210.2	The performance metrics to design the control system in time-domain and frequency domain are introduced.	
3	C210.3	Control systems for various applications can be designed using time-domain and frequency domain analysis	
4	C210.4	In addition to the conventional approach, the state space approach for the analysis of control systems is also introduced.	


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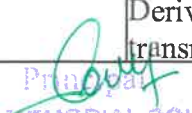
Department Of Electronics And Communication Engineering			
AcademicYear:2022-2023		YEAR AND SEM=2-2	Course:
		Regulation:R20	
S.No.	Course Outcomes	Description	
1	C211.1	After completion of the Course the student will acquire the knowledge on management functions, global leadership and organizational structure	
2	C211.2	Will familiarize with the concepts of functional management that is HR Mand Marketing of new product developments	
3	C211.3	The learn erisable to think in strategically through contemporary management practices	
4	C211.4	The learner can develop positive attitude through personality development and can equip with motivational theories.	
5	C211.5	The student can attain the group performance and grievance handling in managing the organizational culture	

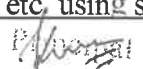

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Department Of Electronics And Communication Engineering			
AcademicYear:2022-2023		YEAR AND SEM=3-1	Course: AICA
		Regulation:R20	
S.No.	Course Outcomes	Description	
1	C301.1	Describe the Op-Amp and internal Circuitry: 555 Timer, PLL	
2	C301.2	Discuss the Applications of Operational amplifier: 555 Timer, PLL	
3	C301.3	Design the Active filters using Operational Amplifier	
4	C301.4	Use the Op-Amp in A to D & D to A Converters	

Department Of Electronics And Communication Engineering			
AcademicYear:2022-2023		YEAR AND SEM=3-1	Course: EMWTL
		Regulation:R20	
S.No.	Course Outcomes	Description	
1	C302.1	Determine E and H using various laws and applications of electric & magnetic fields	
2	C302.2	Apply the Maxwell equations to analyze the time varying behavior of EM waves	
3	C302.3	Gain the knowledge in uniform plane wave concept and characteristics of uniform plane wave in various media	
4	C302.4	Calculate Brewster angle, critical angle and total internal reflection	
5	C302.5	Derive and Calculate the expressions for input impedance of transmission lines, reflection coefficient, VSWR etc, using smith chart	


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Department Of Electronics And Communication Engineering			
AcademicYear:2022-2023		YEAR AND SEM=3-1	Course: DC
		Regulation:R20	
S.No.	Course Outcomes	Description	
1	C303.1	Analyze the performance of a Digital Communication System for probability of error and are able to design a digital communication system	
2	C303.2	Analyze various source coding techniques.	
3	C303.3	Gain the knowledge in uniform plane wave concept and characteristics of uniform plane wave in various media	
4	C303.4	Compute and analyze Block codes, cyclic codes and convolution	
5	C303.5	Design a coded communication system.	

Department Of Electronics And Communication Engineering			
AcademicYear:2022-2023		YEAR AND SEM=3-1	Course: DC
		Regulation:R20	
S.No.	Course Outcomes	Description	
1	C304.1	Analyze the performance of a Digital Communication System for probability of error and are able to design a digital communication system	
2	C304.2	Analyze various source coding techniques.	
3	C305.3	Gain the knowledge in uniform plane wave concept and characteristics of uniform plane wave in various media	
4	C304.4	Compute and analyze Block codes, cyclic codes and convolution	
5	C304.5	Design a coded communication system.	

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AcademicYear:2022-2023		YEAR AND SEM=3-1	Course: AWP	Regulation:R20
S.No.	Course Outcomes	Description		
1	C305.1	Identify basic antenna parameters		
2	C305.2	Design and analyze wire antennas, loop antennas, reflector antennas, lens antennas, horn antennas and micro-strip antennas		
3	C305.3	Quantify the fields radiated by various types of antennas		
4	C305.4	Design and analyze antenna arrays		
5	C305.5	Analyze antenna measurements to assess antenna's performance		

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AcademicYear:2022-2023		YEAR AND SEM=3-1	Course: AWP	Regulation:R20
S.No.	Course Outcomes	Description		
1	C306.1	Select the instrument to be used based on the requirements		
2	C306.2	Understand and analyze different signal generators and analyzers.		
3	C306.3	Understand the design of oscilloscopes for different applications		
4	C306.4	Design different transducers for measurement of different parameters		


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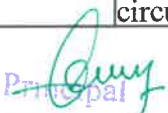
AcademicYear:2022-2023		YEAR AND SEM=3-1	Course: CAO	Regulation:R20
S.No.	Course Outcomes	Description		
1	C307.1	Students can understand the architecture of modern computer		
2	C307.2	They can analyze the Performance of a computer using performance equation		
3	C307.3	Understanding of different instruction types		
4	C307.4	Students can calculate the effective address of an operand by addressing modes		
5	C307.5	They can understand how computer stores positive and negative numbers.		

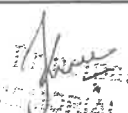
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Department Of Electronics And Communication Engineering			
AcademicYear:2022-2023		YEAR AND SEM=3-2	Course: MPMC
		Regulation:R20	
S.No.	Course Outcomes	Description	
1	C308.1	Understand the architecture of microprocessor/ microcontroller and their operation.	
2	C308.2	Demonstrate programming skills in assembly language for processors and Controllers.	
3	C308.3	Analyze various interfacing techniques and apply them for the design of processor / Controller based systems	

Department Of Electronics And Communication Engineering			
AcademicYear:2022-2023		YEAR AND SEM=3-2	Course: VLSI D
		Regulation:R20	
S.No.	Course Outcomes	Description	
1	C309.1	Demonstrate a clear understanding of CMOS fabrication flow and technology scaling	
2	C309.2	Apply the design Rules and draw layout of a given logic circuit	
3	C309.3	Design basic building blocks in Analog IC design.	
4	C309.4	Analyze the behavior of amplifier circuits with various loads	
5	C309.5	Design various CMOS logic circuits for design of Combinational logic circuits	


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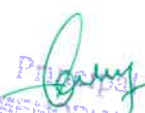

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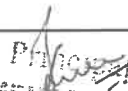
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AcademicYear:2022-2023		YEAR AND SEM=3-2	Course: DSP	Regulation:R20
S.No.	Course Outcomes	Description		
1	C310.1	Apply the difference equations concept in the analysis of Discrete time systems		
2	C310.2	Use the FFT algorithm for solving the DFT of a given signal		
3	C310.3	Design a Digital filter (FIR&IIR) from the given specifications		
4	C310.4	Realize the FIR and IIR structures from the designed digital filter		
5	C310.5	Use the Multirate Processing concepts in various applications (eg: Design of phase shifters, Interfacing of digital systems		

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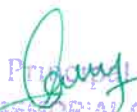
AcademicYear:2022-2023		YEAR AND SEM=3-2	Course: ES	Regulation:R20
S.No.	Course Outcomes	Description		
1	C311.1	Understand the basic concepts of an embedded system and able to know an embedded system design approach to perform a specific function		
2	C311.2	The hardware components required for an embedded system and the design approach of an embedded hardware		
3	C311.3	The various embedded firmware design approaches on embedded environment.		
4	C311.4	Understand how to integrate hardware and firmware of an embedded system using real time operating system.		



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Department Of Electronics And Communication Engineering			
AcademicYear:2022-2023		YEAR AND SEM=4-1	Course: MOC
		Regulation:R19	
S.No.	Course Outcomes	Description	
1	C313.1	Design different modes in waveguide structures	
2	C313.2	Calculate S-matrix for various waveguide components and splitting the microwave energy in a desired direction	
3	C313.3	Distinguish between Microwave tubes and Solid State Devices, calculation of efficiency devices	
4	C313.4	Measure various microwave parameters using a Microwave testbench	


Department Of Electronics And Communication Engineering			
AcademicYear:2022-2023		YEAR AND SEM=4-1	Course: DCCN
		Regulation:R19	
S.No.	Course Outcomes	Description	
1	C401.1	Know the Categories and functions of various Data communication Networks	
2	C401.2	Design and analyze various error detection techniques	
3	C401.3	Demonstrate the mechanism of routing the data in network layer	
4	C401.4	Know the significance of various Flow control and Congestion control Mechanisms	
5	C401.5	Know the Functioning of various Application layer Protocols.	



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Department Of Electronics And Communication Engineering			
AcademicYear:2022-2023		YEAR AND SEM=4-1	Course: DIP Regulation:R19
S.No.	Course Outcomes	Description	
1	C402.1	Defining the digital image, representation of digital image, importance of image resolution, applications in imageprocessing	
2	C402.2	Know the advantages of representation of digital images in transform domain, application of various imagetransforms	
3	C402.3	Know how an image can be enhanced by using histogram techniques, filtering techniques etc	
4	C402.4	Understand image degradation, image restoration techniques using spatial filtersand frequencydomain	
5	C402.5	Know the detection of point, line and edges in images, edge linking through local processing, globalprocessing.	


Department Of Electronics And Communication Engineering			
AcademicYear:2022-2023		YEAR AND SEM=4-1	Course:AICD Regulation:R19
S.No.	Course Outcomes	Description	
1	C403.1	Model and simulate different MOS Devices using small signalModel	
2	C403.2	Design and analyze any Analog Circuits in real timeapplications	
3	C403.3	Apply the concepts Analog Circuit Design to develop various Applications in RealTime	
4	C403.4	Analyze and comparedifferentOpen-Loop Comparators andOscillators	



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Department Of Electronics And Communication Engineering			
AcademicYear:2022-2023		YEAR AND SEM=4-2	Course:WC Regulation:R19
S.No.	Course Outcomes	Description	
1	C404.1	Know about the Wireless systems and Standards (1G/2G/3Gsystems).	
2	C404.2	Concept and analysis of CDMA-based wireless networks	
3	C404.3	Understand the concepts of Multiple-Input Multiple-Output(MIMO).	
4	C404.4	Understand the modern wireless systems using OFDM	
5	C404.5	Analysis of Satellite-Based Wireless systems	

Department Of Electronics And Communication Engineering			
AcademicYear:2022-2023		YEAR AND SEM=4-2	Course:CSC Regulation:R19
S.No.	C401.1	Description	
1	C405.2	Explain the computer forensicsfundamentals.	
2	C405.3	Describe the types of computer forensicstechnology	
3	C405.4	Analyze various computer foren sicssystems	
4	C405.5	Illustrate the methods for data recovery, evidence collection and dataseizure	


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Academic Year: 2022-2023		Year: I Semester: I	Course: English	Regulation: R20
S.No.	Course Outcomes	Description		
1	C101.1	At the end of the module, the learners will be able to		
2	C101.2	Understand social or transactional dialogues spoken by native speakers of English and identify		
3	C101.3	Ask and answer general questions on familiar topics and introduce oneself/others		
4	C101.4	Employ suitable strategies for skimming and scanning to get the general idea of a text and		
5	C101.5	Recognize paragraph structure and be able to match beginnings/endings/headings with		

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING				
Academic Year: 2022-2023		Year: I Semester: I	Course: M-1	Regulation: R20
S.No.	Course Outcomes	Description		
1	C102.1	At the end of the course, the student will be able to		
2	C102.2	Utilize mean value theorems to real life problems (L3)		
3	C102.3	Solve the differential equations related to various engineering fields (L3)		
4	C102.4	Familiarize with functions of several variables which is useful in optimization (L3)		
5	C102.5	Apply double integration techniques in evaluating areas bounded by region (L3)		

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING				
AcademicYear:2022-2023		Year: I Semester: I	Course: Applied Chemistry	Regulation:R20
S.No.	Course Outcomes	Description		
1	C103.1	Importance of usage of plastics in household appliances and composites (FRP) in aerospace and automotive industries		
2	C103.2	Outline the basics for the construction of electrochemical cells, batteries and fuel cells. Understand the mechanism of corrosion and how it		
3	C103.3	Explain the preparation of semiconductors and nanomaterials, engineering applications of nanomaterials, superconductors and liquid crystals.		
4	C103.4	Recall the increase in demand for power and hence alternative sources of power are studied due to depleting sources of fossil fuels. Advanced		
5	C103.5	Outline the basics of computational chemistry and molecular switches		


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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	Upon the completion of the course the student will learn		
2	C104.2	To write algorithms and to draw flowcharts for solving problems		
3	C104.3	To convert flowcharts/algorithms to C Programs, compile and debug programs		
4	C104.4	To use different operators, data types and write programs that use two-way/ multiway selection		
5	C104.5	To select the best loop construct for a given problem		

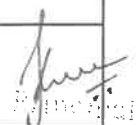
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING				
AcademicYear:2022-2023		Year: I Semester:II	Course: APPLIED CHEMISTRY	Regulation:R20
S.No.	Course Outcomes	Description		
1	C106.1	At the end of this unit, the students will be able to		
2	C106.2	Utilize the theory of construction of electrodes		
3	C106.3	Batteries and fuel cells in redesigning		
4	C106.4	Engineering products and categorize the reasons		
5	C106.5	Corrosion and study methods to control		

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AcademicYear:2022-2023		Year: I Semester:II	Course: COA	Regulation:R20
S.No.	Course Outcomes	Description		
1	C107.1	By the end of the course the student will be able to		
2	C107.2	Demonstrate and understanding of the design of the functional units of a digital computer		
3	C107.3	Relate Postulates of Boolean algebra and minimize combinational functions		
4	C107.4	Recognize and manipulate representations of numbers stored in digital computers		
5	C107.5	Build the logic families and realization of logic gates.		


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AcademicYear:2022-2023		Year: I Semester:II	Course: PYTHON PROGRAMMIN	Regulation:R20
S.No.	Course Outcomes	Description		
1	C108.1	Develop essential programming skills in computer programming concepts like data		
2	C108.2	Apply the basics of programming in the Python language		
3	C108.3	Solve coding tasks related conditional execution, loops		
4	C108.4	Solve coding tasks related to the fundamental notions and techniques used in objectoriented		
5	C108.5	Apply the basics of programming in the Python language		

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING				
AcademicYear:2022-2023		Year: I Semester:II	Course:DS	Regulation:R20
S.No.	Course Outcomes	Description		
1	C109.1	After completing this course a student will be able to		
2	C109.2	Summarize the properties, interfaces, and behaviors of basic abstract data types		
3	C109.3	Discuss the computational efficiency of the principal algorithms for sorting & searching		
4	C109.4	Use arrays, records, linked structures, stacks, queues, trees, and Graphs in writing programs		
5	C109.5	Demonstrate different methods for traversing trees		

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING			
Academic Year: 2022-2023		Year: II Semester: I	Course: M-III Regulation: R20
S.No.	Course Outcomes	Description	
1	C201.1	Interpret the physical meaning of different operators such as gradient, curl and divergence	
2	C201.2	Estimate the work done against a field, circulation and flux using vector calculus (L5)	
3	C201.3	Apply the Laplace transform for solving differential equations (L3)	
4	C201.4	Find or compute the Fourier series of periodic signals (L3)	
5	C201.5	Know and be able to apply integral expressions for the forwards and inverse Fourier	

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING			
Academic Year: 2022-2023		Year: II Semester: I	Course: CPP Regulation: R20
S.No.	Course Outcomes	Description	
1	C202.1	Classify object-oriented programming and procedural programming	
2	C202.2	Apply C++ features such as composition of objects, operator overloads	
3	C202.3	Build C++ classes using appropriate encapsulation and design principles	
4	C202.4	Apply object-oriented or non-object-oriented techniques to solve bigger computing	
5	C202.5	inheritance and polymorphism, file I/O, exception handling	

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING				
Academic Year: 2022-2023		Year: II Semester: I	Course: OS	Regulation: R20
S.No.	Course Outcomes	Description		
1	C203.1	Describe various generations of Operating Systems and functions of Operating System		
2	C203.2	Describe the concept of program, process and thread and analyze various CPU		
3	C203.3	Solve Inter Process Communication problems using Mathematical Equations by		
4	C203.4	Compare various Memory Management Schemes especially paging and Segmentation		
5	C203.5	Outline File Systems in Operating System like UNIX/Linux and Windows		


DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING				
Academic Year: 2022-2023		Year: II Semester: I	Course: SE	Regulation: R20
S.No.	Course Outcomes	Description		
1	C204.1	Ability to transform an Object-Oriented Design into high quality, executable code		
2	C204.2	Skill to design, implement, and execute test cases at the Unit and Integration level		
3	C204.3	Skill to design, implement, and execute test cases at the Unit and Integration level		
4	C204.4	Ability to transform an Object-Oriented Design into high quality, executable code.		
5	C204.5	Skill to design, implement, and execute test cases at the Unit and Integration level.		

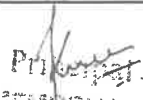
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING				
AcademicYear:2022-2023		Year: II Semester:I	Course:MFCS	Regulation:R20
S.No.	CourseOutcomes	Description		
1	C205.1	Demonstrates skills in solving mathematical problems		
2	C205.2	Comprehend mathematical principles and logic		
3	C205.3	Demonstrate knowledge of mathematical modeling and proficiency in using mathematical software		
4	C205.4	Manipulate and analyze data numerically and/or graphically using appropriate software		
5	C205.5	Communicate effectively mathematical ideas/results verbally or in writing		

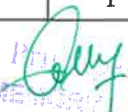
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING				
AcademicYear:2022-2023		Year: II Semester: II	Course: FORMAL LANGUAGES AND AUTOMATA	Regulation: R20
S.No.	Course Outcomes	Description		
1	C206.1	Classify machines by their power to recognize languages		
2	C206.2	Summarize language classes & grammars relationship among them with the help of		
3	C206.3	Employ finite state machines to solve problems in computing		
4	C206.4	Illustrate deterministic and non-deterministic machines		
5	C206.5	Quote the hierarchy of problems arising in the computer science		

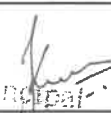

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING			
Academic Year: 2022-2023		Year: II Semester: II	Course: JAVA PROGRAMMING
		Regulation: R20	
S.No.	Course Outcomes	Description	
1	C207.1	Able to realize the concept of Object Oriented Programming & Java Programming Constructs	
2	C207.2	Able to describe the basic concepts of Java such as operators, classes, objects, inheritance,	
3	C207.3	Apply the concept of exception handling and Input/ Output operatio	
4	C207.4	Able to design the applications of Java & Java applet	
5	C207.5	Able to Analyze & Design the concept of Event Handling and Abstract Window Toolkit	

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING			
Academic Year: 2022-2023		Year: II Semester: II	Course: FORMAL LANGUAGES AND AUTOMATA
		Regulation: R20	
S.No.	Course Outcomes	Description	
1	C208.1	Classify machines by their power to recognize languages	
2	C208.2	Summarize language classes & grammars relationship among them with the help of	
3	C208.3	Employ finite state machines to solve problems in computing	
4	C208.4	Illustrate deterministic and non-deterministic machines	
5	C208.5	Quote the hierarchy of problems arising in the computer science	


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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING				
Academic Year: 2022-2023		Year: II Semester: II	Course: JAVA PROGRAMMING	Regulation: R20
S.No.	Course Outcomes	Description		
1	C209.1	Able to realize the concept of Object Oriented Programming & Java Programming Constructs		
2	C209.2	Able to describe the basic concepts of Java such as operators, classes, objects, inheritance,		
3	C209.3	Apply the concept of exception handling and Input/ Output operation		
4	C209.4	Able to design the applications of Java & Java applet		
5	C209.5	Able to Analyze & Design the concept of Event Handling and Abstract Window Toolkit		


DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING				
Academic Year: 2022-2023		Year: II Semester: II	Course: MANAGERIAL ECONOMICS AND FINANCIAL ACCOUNTANCY	Regulation: R20
S.No.	Course Outcomes	Description		
1	C210.1	The Learner is equipped with the knowledge of estimating the Demand and demand elasticities for		
2	C210.2	The knowledge of understanding of the Input-Output-Cost relationships and estimation of the		
3	C210.3	The pupil is also ready to understand the nature of different markets and Price Output determination		
4	C210.4	The Learner is able to prepare Financial Statements and the usage of various Accounting		
5	C210.5	The Learner can able to evaluate various investment project proposals with the help of capital budgeting techniques for decision making		

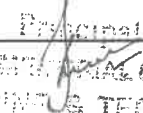
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING			
Academic Year: 2022-2023		Year: III Semester: I	Course: COMPUTER NETWORKS
		Regulation: R20	
S.No.	Course Outcomes	Description	
1	C301.1	Demonstrate different network models for networking links OSI, TCP/IP, B-ISDN, N-	
2	C301.2	Discuss different transmission media and different switching networks.	
3	C301.3	Analyze data link layer services, functions and protocols like HDLC and PPP.	
4	C301.4	Compare and Classify medium access control protocols like ALOHA, CSMA, CSMA/CD,	
5	C301.5	Determine application layer services and client server protocols working with the client server	


DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING			
Academic Year: 2022-2023		Year: III Sem: I	Course: DESIGN AND ANALYSIS OF ALGORITHMS
		Regulation: R20	
S.No.	Course Outcomes	Description	
1	C302.1	Analyze the performance of a given algorithm, denote its time complexity using the asymptotic notation for recursive and non-	
2	C302.2	List and describe various algorithmic approaches and Solve problems using divide and conquer & greedy Methods solution.	
3	C302.3	Synthesize efficient algorithms dynamic programming approaches to solve in common	
4	C302.4	Organize important algorithmic design paradigms	
5	C302.5	Demonstrate NP- Completeness theory, lower bound theory and String Matching	

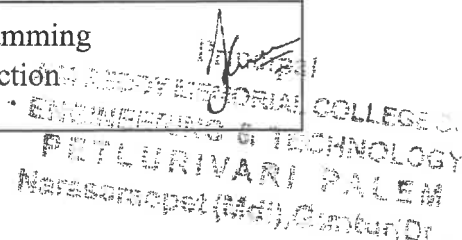

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING			
Academic Year: 2022-2023		Year: III Semester: I	Course: DATA WAREHOUSING AND MINING
		Regulation: R20	
S.No.	Course Outcomes	Description	
1	C303.1	Illustrate the importance of Data Warehousing, Data Mining and its functionalities and Design schema for real time data warehousing	
2	C303.2	Demonstrate on various Data Preprocessing Techniques viz. data cleaning, data integration,	
3	C303.3	Choose appropriate classification technique to perform classification, model building and evaluation.	
4	C303.4	Make use of association rule mining techniques viz. Apriori and FP Growth algorithms and	
5	C303.5	Identify and apply various clustering algorithm	


DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING			
Academic Year: 2022-2023		Year: III Semester: I	Course: OPTIMIZATION IN OPERATIONS RESEARCH
		Regulation: R20	
S.No.	Course Outcomes	Description	
1	C304.1	State and formulate the optimization problem, without and with constraints, by using design.	
2	C304.2	Apply classical optimization techniques to minimize or maximize a multi-variable objective	
3	C304.3	Apply and Solve transportation and assignment problem by using Linear programming Simplex	
4	C304.4	Apply gradient and non-gradient methods to nonlinear optimization problems and use interior	
5	C304.5	Formulate and apply Dynamic programming technique to inventory control, production planning,	


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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING				
Academic Year: 2022-2023		Year: III Semester: I	Course: ARTIFICIAL INTELLIGENCE	Regulation: R20
S.No.	Course Outcomes	Description		
1	C305.1	Understand the fundamental concepts in Artificial Intelligence		
2	C305.2	Analyze the applications of search strategies and problem reductions		
3	C305.3	Apply the mathematical logic concepts.		
4	C305.4	Develop the Knowledge representations in Artificial Intelligence		
5	C305.5	Explain the Fuzzy logic systems.		


DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING				
Academic Year: 2022-2023		Year: III Semester: I	Course: SOFTWARE PROJECT MANAGEMENT	Regulation: R20
S.No.	Course Outcomes	Description		
1	C306.1	Apply the process to be followed in the software development life-cycle models		
2	C306.2	Apply the concepts of project management & planning solution.		
3	C306.3	Implement the project plans through managing people, communications and change		
4	C306.4	Conduct activities necessary to successfully complete and close the Software projects		
5	C306.5	Implement communication, modeling, and construction & deployment practices in software development.		

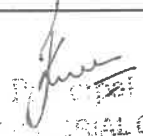

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING			
Academic Year: 2022-2023		Year: III Semester: I	Course: DISTRIBUTED SYSTEMS
		Regulation: R20	
S.No.	Course Outcomes	Description	
1	C307.1	Elucidate the foundations and issues of distributed systems	
2	C307.2	Illustrate the various synchronization issues and global state for distributed systems	
3	C307.3	Illustrate the Mutual Exclusion and Deadlock detection algorithms in distributed systems	
4	C307.4	Describe the agreement protocols and fault tolerance mechanisms in distributed systems	
5	C307.5	Describe the features of peer-to-peer and distributed shared memory systems	


DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING			
Academic Year: 2022-2023		Year: III Semester: I	Course: ADVANCED UNIX PROGRAMMING
		Regulation: R20	
S.No.	Course Outcomes	Description	
1	C308.1	Gain good knowledge on Unix commands and awareness of shell programming	
2	C308.2	Know about different system calls for files and directories	
3	C308.3	Ability to know the working of processes and signals	
4	C308.4	Application of client server program for IPC	
5	C308.5	Knowledge about socket programming	



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING			
Academic Year: 2022-2023		Year: III Semester: II	Course: MACHINE LEARNING Regulation: R20
S.No.	Course Outcomes	Description	
1	C309.1	Explain the fundamental usage of the concept Machine Learning system	
2	C309.2	Demonstrate on various regression Technique	
3	C309.3	Analyze the Ensemble Learning Methods	
4	C309.4	Illustrate the Clustering Techniques and Dimensionality Reduction Models in Machine Learning.	
5	C309.5	Discuss the Neural Network Models and Fundamentals concepts of Deep Learning	

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING			
Academic Year: 2022-2023		Year: III Semester: II	Course: COMPILER DESIGN Regulation: R20
S.No.	Course Outcomes	Description	
1	C310.1	Demonstrate phases in the design of compiler	
2	C310.2	Organize Syntax Analysis, Top Down and LL(1) grammars	
3	C310.3	Design Bottom Up Parsing and Construction of LR parsers	
4	C310.4	Analyze synthesized, inherited attributes and syntax directed translation schemes	
5	C310.5	Determine algorithms to generate code for a target machine	


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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING			
Academic Year: 2022-2023		Year: III Semester: II	Course: CRYPTOGRAPHY AND NETWORK SECURITY Regulation: R20
S.No.	Course Outcomes	Description	
1	C311.1	Explain different security threats and countermeasures and foundation course of cryptography mathematics.	
2	C311.2	Classify the basic principles of symmetric key algorithms and operations of some symmetric key algorithms and asymmetric key cryptography	
3	C311.3	Revise the basic principles of Public key algorithms and Working operations of some Asymmetric key algorithms such as RSA, ECC	
4	C311.4	Design applications of hash algorithms, digital signatures and key management techniques	
5	C311.5	Determine the knowledge of Application layer, Transport layer and Network layer security Protocols such as PGP, S/MIME, SSL, TLS, and	

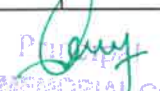
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Academic Year: 2022-2023		Year: III Semester: II	Course: MOBILE COMPUTING Regulation: R20
S.No.	Course Outcomes	Description	
1	C312.1	Develop a strong grounding in the fundamentals of mobile Networks	
2	C312.2	Apply knowledge in MAC, Network, and Transport Layer protocols of Wireless Network	
3	C312.3	Comprehend, design, and develop a lightweight network stack	
4	C312.4	Analyze the Mobile Network Layer system working	
5	C312.5	Explain about the WAP Model	


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Academic Year: 2022-2023		Year: IV Semester: I	Course: CRYPTOGRAPHY AND NETWORK SECURITY
		Regulation: R19	
S.No.	Course Outcomes	Description	
1	C401.1	Identify information security goals, classical encryption techniques and acquire fundamental knowledge on the concepts of finite fields and number theory	
2	C401.2	Compare and apply different encryption and decryption techniques to solve problems related	
3	C401.3	Apply the knowledge of cryptographic checksums and evaluate the performance of	
4	C401.4	Apply different digital signature algorithms to achieve authentication and create secure	
5	C401.5	Apply network security basics, analyze different attacks on networks and evaluate the performance	

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Academic Year: 2022-2023		Year: IV Semester: I	Course: UML & DESIGN PATTERNS
		Regulation: R19	
S.No.	Course Outcomes	Description	
1	C402.1	Illustrate software design with UML diagrams	
2	C402.2	Design software applications using OO concepts	
3	C402.3	Identify various scenarios based on software requirements	
4	C402.4	Identify various scenarios based on software requirements	
5	C402.5	Illustrate the various testing methodologies for OO software	

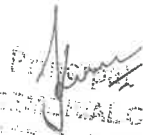

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING			
Academic Year: 2022-2023		Year: IV Semester: I	Course: MACHINE LEARNING
		Regulation: R19	
S.No.	Course Outcomes	Description	
1	C403.1	Identify machine learning techniques suitable for a given problem	
2	C403.2	Solve the problems using various machine learning techniques	
3	C403.3	Apply Dimensionality reduction techniques digest algorithms for verifying the	
4	C403.4	Design application using machine learning techniques	
5	C403.5	Gain knowledge about basic concepts of Machine Learning	

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING			
Academic Year: 2022-2023		Year: IV Semester:	Course: DATA SCIENCE
		Regulation: R19	
S.No.	Course Outcomes	Description	
1	C404.1	Describe what Data Science is and the skill sets needed to be a data scientist	
2	C404.2	Illustrate in basic terms what Statistical Inference means. Identify probability	
3	C404.3	Use R to carry out basic statistical modeling and analysis digest algorithms for verifying the	
4	C404.4	Apply basic tools (plots, graphs, summary statistics) to carry out EDA	
5	C404.5	Describe the Data Science Process and how its	


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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING				
AcademicYear:2022-2023		Year: IV Semester: I	Course: WEB SERVICES	Regulation:R19
S.No.	Course Outcomes	Description		
1	C405.1	Recite the advantages of using XML technology family		
2	C405.2	Analyze the problems associated with tightly coupled distributed software architecture		
3	C405.3	Learn the Web services building block		
4	C405.4	Implement e-business solutions using XML based web services		
5	C405.5	To understand the concept of XML and to implement Web services using XML based		


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AcademicYear:2022-2023		Year:IV Semester:II	Course: MANAGEMENT AND ORGANIZATIONAL BEHAVIOR	Regulation:R19
S.No.	Course Outcomes	Description		
1	C406.1	To familiarize with the process of management, principles, leadership styles		
2	C406.2	To provide conceptual knowledge on functional management that is on Human		
3	C406.3	To provide basic insight into select contemporary		
4	C406.4	To learn theories of motivation and also deals with individual behavior, their personality and perception of individuals		
5	C406.5	To understand about organizations groups that affect the climate of an entire		


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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING				
AcademicYear:2022-2023		Year: IV Semester: II	Course: DEEP LEARNING	Regulation:R19
S.No.	Course Outcomes	Description		
1	C407.1	Demonstrate the mathematical foundation of neural network		
2	C407.2	Describe the machine learning basics		
3	C407.3	Differentiate architecture of deep neural network		
4	C407.4	Build a convolutional neural network		
5	C407.5	Build and train RNN and LSTMs		

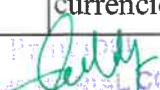
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AcademicYear:2022-2023		Year:IV Semester:II	Course: QUANTUM COMPUTING	Regulation:R19
S.No.	Course Outcomes	Description		
1	C408.1	Analyze the behaviour of basic quantum algorithms		
2	C408.2	Implement simple quantum algorithms and information channels in the quantum circuit		
3	C408.3	Simulate a simple quantum error-correcting code		
4	C408.4	Prove basic facts about quantum information channels		
5	C408.5	This course teaches the fundamentals of quantum information processing, including quantum computation, quantum cryptography, and quantum information theory.		

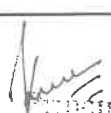

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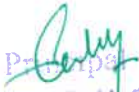
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING			
AcademicYear:2022-2023		Year:IV Semester:II	Course: DevOps Regulation:R19
S.No.	Course Outcomes	Description	
1	C409.1	Enumerate the principles of continuous development and deployment, automation of configuration management, inter-team collaboration, and IT service agility	
2	C409.2	Describe DevOps & DevSecOps methodologies and their key concepts	
3	C409.3	Illustrate the types of version control systems, continuous integration tools, continuous monitoring tools, and cloud models	
4	C409.4	Set up complete private infrastructure using version control systems and CI/CD tools	
5	C409.5	DevOps improves collaboration and productivity by automating infrastructure and workflows and continuously measuring applications	

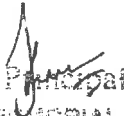
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING			
AcademicYear:2022-2023		Year:IV Semester:II	Course: BLOCKCHAIN TECHNOLOGIES Regulation:R19
S.No.	Course Outcomes	Description	
1	C410.1	Demonstrate the foundation of the Block chain technology and understand the processes in payment and funding.	
2	C410.2	Identify the risks involved in building Block chain applications	
3	C410.3	Review of legal implications using smart	
4	C410.4	Choose the present landscape of Blockchain implementations and Understand Crypto currency markets	
5	C410.5	Examine how to profit from trading crypto currencies.	


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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING			
Academic Year:2022-2023		Year:IV Semester:II	Course: BIG DATA ANALYTICS
		Regulation:R19	
S.No.	Course Outcomes	Description	
1	C411.1	Illustrate big data challenges in different domains including social media, transportation, finance and medicine.	
2	C411.2	Use various techniques for mining data stream	
3	C411.3	Design and develop Hadoop	
4	C411.4	Identify the characteristics of datasets and compare the trivial data and big data for various applications	
5	C411.5	Explore the various search methods and visualization techniques	


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DEPARTMENT OF AGRICULTURAL ENGINEERING

AY: 2022-2023		Year/Sem: I/I	Course: Mathematics I	Regulation: R20
S. No	Course Code	Course Outcome		
1	BS1101.1	Utilize mean value theorems to real life problems (L3)		
2	BS1101.2	Solve the differential equations related to various engineering fields (L3)		
3	BS1101.3	Familiarize with functions of several variables which is useful in optimization (L3)		
4	BS1101.4	Apply double integration techniques in evaluating areas bounded by region (L3)		
5	BS1101.5	Students will also learn important tools of calculus in higher dimensions. Students will become familiar with 2- dimensional and 3-dimensional coordinate systems (L5)		

AY: 2022-2023		Year/Sem: I/I	Course: English	Regulation: R20
S. No	Course Code	Course Outcome		
1	HS1101 .1	Understand social or transactional dialogues spoken by native speakers of English and identify the context, topic, and pieces of specific information		
2	HS1101.2	Ask and answer general questions on familiar topics and introduce oneself/others		
3	HS1101.3	Employ suitable strategies for skimming and scanning to get the general idea of a text and locate specific information.		
4	HS1101.4	Recognize paragraph structure and be able to match beginnings/endings/headings with paragraphs		
5	HS1101.5	Form sentences using proper grammatical structures and correct word forms		


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AY: 2022-2023		Year/Sem: I/I	Course: Engineering physics	Regulation: R20
S. No	Course Code	Course Outcome		
1	BS1108.1	Demonstrate understanding of the principles of interference and polarization of light, along with their engineering applications, while distinguishing between interference and diffraction phenomena.(L3)		
2	BS1108.2	Understand LASER light sources, their types, engineering applications, and the working principle of optical fibers, including classification and applications in various fields.(L3)		
3	BS1108.3	Explore dielectric properties, magnetic materials, and their applications in devices, emphasizing concepts like polarization, Lorentz field, and susceptibility.L3)		
4	BS1108.4	Understand the principles of sound propagation in buildings, analyze acoustic properties of building materials, recognize sound disruptors, and identify applications of ultrasonics in various fields.(L2)		
5	BS1108.5	Classify crystal systems, identify crystal planes, analyze crystalline structure using Bragg's X-ray diffractometer, and apply powder method for measuring solid crystallinity. (2)		

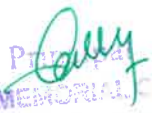
AY: 2022-2023		Year/Sem: I/I	Course: PSSA	Regulation: R20
S. No	Course Code	Course Outcome		
1	BS1101.1	Enhance comprehension of soil science fundamentals, encompassing soil composition, rock classification, mineral types, weathering processes, and soil formation factors, facilitating effective soil characterization and analysis.		
2	BS1101.2	Develop proficiency in soil physics principles, encompassing soil structure, consistency, density, porosity, water movement, infiltration, evaporation, air composition, temperature, color determination, and colloidal properties, to enhance soil management expertise.		
3	BS1101.3	Enhance comprehension of soil fertility principles and management techniques for sustainable agricultural practices.		
4	BS1101.4	Enhance understanding of irrigation water quality parameters and their impact on crop production, along with comprehensive knowledge of soil taxonomy and classification systems.		
5	BS1101.5	Develop understanding of tillage practices, encompassing seed bed preparation and sowing techniques, alongside weed management principles and soil conservation strategies for sustainable agriculture.		


AY: 2022-2023		Year/Sem: I/II	Course: Mathematics II	Regulation: R20
S. No	Course Code	Course Outcome		
1	BS1201 .1	Develop the use of matrix algebra techniques that is needed by engineers for practical applications (L6)		
2	BS1201.2	Solve system of linear algebraic equations using Gauss elimination, Gauss Jordan, Gauss Seidel (L3)		
3	BS1201.3	Evaluate the approximate roots of polynomial and transcendental equations by different algorithms (L5)		
4	BS1201.4	Apply Newton's forward & backward interpolation and Lagrange's formulae for equal and unequal intervals (L3)		
5	BS1201.5	Apply numerical integral techniques to different Engineering problems (L3)		
6	BS1201.6	Apply different algorithms for approximating the solutions of ordinary differential equations with initial conditions to its analytical computations (L3)		

AY: 2022-2023		Year/Sem: I/II	Course: Engineering Chemistry	Regulation: R20
S. No	Course Code	Course Outcome		
1	BS1210 .1	Analyze the different types of composite plastic materials and interpret the mechanism of conduction in conducting polymers.		
2	BS1210.2	Utilize the theory of construction of electrodes, batteries and fuel cells in redesigning new engineering products and categorize the reasons for corrosion and study methods to control corrosion.		
3	BS1210.3	<ul style="list-style-type: none"> • Synthesize nanomaterials for modern advances of engineering technology. • Summarize the techniques that detect and measure changes of state of reaction. • Illustrate the commonly used industrial materials 		
4	BS1210 .4	<ul style="list-style-type: none"> • Differentiate petroleum, petrol, synthetic petrol and have knowledge how they are produced. • Study alternate fuels and analyse flue gases. 		
5	BS1210 .5	Analyze the suitable methods for purification and treatment of hard water and brackish water		

AY: 2022-2023		Year/Sem: I/II	Course: Engineering Mechanics	Regulation: R20
S. No	Course Code	Course Outcome		
1	ES1204.1	The student should be able to draw free body diagrams for FBDs for particles and rigid bodies in plane and space and problems to solve the unknown forces, orientations and geometric parameters.		
2	ES1204.2	He should be able to determine centroid for lines, areas and center of gravity for volumes and their composites.		
3	ES1204.3	He should be able to determine area and mass moment of inertia for composite sections		
4	ES1204.4	Analyze particle motion using kinematics and kinetics, apply work-energy method, and utilize impulse-momentum method for understanding motion behaviour.		
5	ES1204.5	He should be able to analyze motion of particles and rigid bodies and apply the principles of motion, work energy and impulse – momentum		


AY: 2022-2023		Year/Sem: I/II	Course: Engineering Drawing	Regulation: R20
S. No	Course Code	Course Outcome		
1	ES1103 .1	Proficiency in constructing polygons, understanding curves (parabola, ellipse, hyperbola), and applying scales (plain, diagonal, vernier).		
2	ES1103 .2	Mastery in orthographic projections, encompassing reference planes, projection of points and lines, determination of true lengths, and angle of inclination.		
3	ES1103 .3	Develop students' ability to create projections of planes inclined to both reference planes and standard planes perpendicular or parallel to one reference plane and inclined to the other.		
4	ES1103 .4	Enhance students' proficiency in generating projections of solids, including prisms, pyramids, cones, and cylinders, with axes inclined to both reference planes.		
5	ES1103 .5	The student will learn how to visualize 2D & 3D objects.		



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AY: 2022-2023		Year/Sem: I/II	Course: Computer Programming	Regulation: R20
S. No	Course Code	Course Outcome		
1	ES1201.1	To write algorithms and to draw flowcharts for solving problems		
2	ES1201.2	To convert flowcharts/algorithms to C Programs, compile and debug programs		
3	ES1201.3	To use different operators, data types and write programs that use two-way/multi-way selection		
4	ES1201.4	To select the best loop construct for a given problem		
5	ES1201.5	To design and implement programs to analyze the different pointer applications		
6	ES1201.5	To decompose a problem into functions and to develop modular reusable code		


AY: 2022-2023		Year/Sem: II/I	Course: Mathematics III	Regulation: R20
S. No	Course Code	Course Outcome		
1	BS.1	interpret the physical meaning of different operators such as gradient, curl and divergence (L5)•		
2	BS.2	estimate the work done against a field, circulation and flux using vector calculus (L5)•		
3	BS.3	apply the Laplace transform for solving differential equations (L3)		
4	BS.4	find or compute the Fourier series of periodic signals (L3)		
5	BS.5	know and be able to apply integral expressions for the forwards and inverse Fourier transform to a range of non-periodic waveforms (L3)		
6	BS.6	identify solution methods for partial differential equations that model physical processes (L3)		



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AY: 2022-2023		Year/Sem: II/I	Course: Surveying and Leveling	Regulation: R20
S. No	Course Code	Course Outcome		
1	PC.1	"Plane surveying integrates traditional tools and modern methods, emphasizing principles of distance measurement, meridians, azimuths, bearings, and angle computations."		
2	PC.2	"Leveling and contouring cover the principles of temporary and permanent adjustments in leveling methods, along with contour characteristics, uses, and surveying techniques for plotting."		
3	PC.3	Area and volume computation include deriving irregular and regular boundary areas from field notes, as well as determining volumes for various features like embankments, cuttings, reservoirs, and barrow pits."		
4	PC.4	"Theodolite applications, adjustments, and measurements of horizontal and vertical angles, including principles of electronic theodolite, trigonometrical leveling, and traversing."		
5	PC.5	"Tacheometric surveying involves stadia and tangential methods, while advanced surveying includes geodetic surveying, Total Station, GPS, and GIS."		

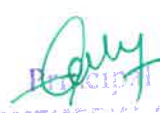
AY: 2022-2023		Year/Sem: II/I	Course: Fluid Mechanics and Open Channel Hydraulics	Regulation: R20
S. No	Course Code	Course Outcome		
1	ES.1	Acquaintance of skills on basic principles of fluid, their properties, flow patterns, classification of flow regimes etc.,		
2	ES.2	Impart knowledge on boundary layer theory and their principals, alynamics of fluid flow and theories of flow regimes – energy calculations.		
3	ES.3	Development of skills on Buoyancy principals, flow measuring devises, their flow dynamics. Skill development on flow through pipes & their concepts, dynamics of mix flow principles of dimensional analysis and similitude, open channel flow dynamic.		
4	ES.4	Skill development on open channel flow dynamics, concepts & principles, their design procedures.		



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AY: 2022-2023		Year/Sem: II/I	Course: Properties and Strength of Materials	Regulation: R20
S. No	Course Code	Course Outcome		
1	ES.1	Skill development on basic properties of engineering materials and their uses, testing of materials.		
2	ES.2	Knowledge development on properties and application of difference of concrete, varieties, distempers, glass, rubber and plywood, plastics, iron-based materials, alloys etc.,		
3	ES.3	Development of skill on stress – strain analysis of beams under different types of loading patterns.		
4	ES.4	Acquaintance of skill on Euler's theory and buckling load, analysis on columns & different types of columns.		
5	ES.5	Skill development on different types of joints (Riveting),		
6	ES.6	welding analysis cantilever, fixed, continuous beams, theory of moments and their analysis.		


AY: 2022-2023		Year/Sem: II/I	Course: Farm Power and Tractor Systems	Regulation: R20
S. No	Course Code	Course Outcome		
1	PC.1	Skill development on farm power sources classification I.C engine components & construction, operating systems		
2	PC.2	Skill development on fuel supply ignition, cooling & lubrication electrical ignition, fuels & their properties, governing systems of IC engines, power transmission, clutches & its applications.		
3	PC.3	Develop an understanding of different types of clutches, including friction clutch, dog clutch, and fluid coupling, focusing on their constructional details and working principles.		
4	PC.4	Gain knowledge of various gear types like selective sliding and constant mesh, understanding their mechanical advantages, torque ratios, and the necessity for gearboxes. Also, comprehend the functions of differential units and final drives in automotive systems.		
5	PC.5	Skill development on principles of fluid coupling & torque connector, brakes principles, classification & friction concepts of hydraulic system in factors.		
6	PC.6	Skill development on tractor powers outlets, P.T.O and its applications, Tractor testing and its main components, CG estimation, Tractor chassis its mechanics.		



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AY: 2022-2023		Year/Sem: II/I	Course: Constitution of India	Regulation: R20
S. No	Course Code	Course Outcome		
1	MC.1	Understand historical background of the constitution making and its importance for building a democratic India		
2	MC.2	Understand the functioning of three wings of the government ie., executive, legislative and judiciary		
3	MC.3	Understand the value of the fundamental rights and duties for becoming good citizen of India		
4	MC.4	Analyze the decentralization of power between central, state and local self-government.		
5	MC.5	Apply the knowledge in strengthening of the constitutional institutions like CAG, Election Commission and UPSC for sustaining democracy		

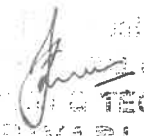
AY: 2022-2023		Year/Sem: II/II	Course: Heat and Mass Transfer	Regulation: R20
S. No	Course Code	Course Outcome		
1	PC.1	Skill development on principles of heat and mass transfer, steady state heat transfer & its analysis, measurement of thermal conducting of pleasure & composite walls, tubes and spheres, multilayer tubes		
2	PC.2	Skill development on conduction principles of different materials in parallel, combined convection and conduction, concept of insulation.		
3	PC.3	Skill development on conduction, convection and radiation analysis of heat and mass transfer, different laws on radiation theory.		
4	PC.4	Imparting skills on unsteady state analysis of heat transfer in fins, free & force convection, cooling theories and principles.		
5	PC.5	Skill development on theory and principles of heat exchanges, their analysis, frick's law of mass transfer coefficients, Reynolds analogy.		



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AY: 2022-2023		Year/Sem: II/II	Course: Ground Water Hydrology, Wells and Pumps	Regulation: R20
S. No	Course Code	Course Outcome		
1	PC.1	Skill development on principles of ground water resources development, different acquaintance and their principles.		
2	PC.2	Imparting knowledge on theory of open well hydraulics and drilling methods.		
3	PC.3	Skill development on aquifers characteristics under steady and unsteady state conditions, multiples well systems for coastal areas.		
4	PC.4	Knowledge development to students on artificial ground water recharge classification of indigenous pumps, solar pumps, wind mill pumps etc.,		
5	PC.5	Skill development on principles of Centrifugal pumps, principles & characteristics .		
6	PC.6	Skill development on High lift pumps, mixed flow pumps, and vertical turbine pump sets.		

AY: 2022-2023		Year/Sem: II/II	Course: Theory of Structures	Regulation: R20
S. No	Course Code	Course Outcome		
1	PC.1	Skill development on RCC theory and practice of principles, stress – Strain analysis		
2	PC.2	Skill development on single, double reinforced sections, their theory & principles, shear stress analysis.		
3	PC.3	Acquaintance of knowledge on design principles of shear reinforcement, anchorage of bars & analysis		
4	PC.4	Skill development on theory and principles of design of one – way reinforced beams/slabs, twoway slabs and columns.		
5	PC.5	Skill development on principles of auxiliary loaded columns, foundations retaining walls, stability analysis.		



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AY: 2022-2023		Year/Sem: II/II	Course: Soil Mechanics	Regulation: R20
S. No	Course Code	Course Outcome		
1	PC.1	Skill development on principles of soil mechanics soil classification, stresses in soils.		
2	PC.2	Skill development on Boussinesq's analysis for vertical pressure applications & Westergaard's analysis for point load applications.		
3	PC.3	Acquaintance of knowledge on shear stress analysis, Mohr's stress circle, measurement of shear strength.		
4	PC.4	Skill development on soil consolidation theory and principles.		
5	PC.5	Skill development on earth pressure and its effects on soil stability of slopes.		


AY: 2022-2023		Year/Sem: II/II	Course: Managerial Economics and Financial Analysis	Regulation: R20
S. No	Course Code	Course Outcome		
1	HSS.1	The Learner is equipped with the knowledge of estimating the Demand and demand elasticities for a product.		
2	HSS.2	The knowledge of understanding of the Input-Output-Cost relationships and estimation of the least cost combination of inputs.		
3	HSS.3	Understand the Nature of Different Markets and Price Output Determination		
4	HSS.4	Knowledge of Different Business Units		
5	HSS.5	The Learner is able to prepare Financial Statements and the usage of various Accounting tools for Analysis		
6	HSS.6	The Learner can able to evaluate various investment project proposals with the help of capital budgeting techniques for decision making		



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AY: 2022-2023		Year/Sem: III/I	Course: Farm Machinery and Equipment - I	Regulation: R20
S. No	Course Code	Course Outcome		
1	PC.1	Apply Principles of Farm Mechanization to calculate field capacities and cost of cultivation.		
2	PC.2	Calculate the forces acting on tillage tools, Draft and Unit draft		
3	PC.3	Explain Earth moving Equipment.		
4	PC.4	Analyze Seeding methods, Plant protection Equipment		
5	PC.5	Discuss the features of Transplanting machinery and Fertilizer application equipment		

AY: 2022-2023		Year/Sem: III/I	Course: Surface Water Hydrology	Regulation: R20
S. No	Course Code	Course Outcome		
1	PC.1	Analyze probability of rainfall, Return Period, Plotting position.		
2	PC.2	Determine net effective rainfall, Peak runoff and Peak runoff rate		
3	PC.3	Discuss the factors affecting flood hydrographs, hydrograph Separation for simple and complex storms.		
4	PC.4	Describe method of superposition, S-Curve and determine duration graphs.		
5	PC.5	Use the Concepts of Flood raining		


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AY: 2022-2023		Year/Sem: III/I	Course: Post Harvest Engineering of Cereals, Pulses and Oilseeds	Regulation: R20
S. No	Course Code	Course Outcome		
1	PC.1	Apply principles of Bond's law, Kick's law, Rittinger's law for size reduction		
2	PC.2	Explain the features and application of Material Handling equipment		
3	PC.3	Explain the concepts of Dryers		
4	PC.4	Use CFTRI and Jadavpur methods for Mixing and Milling Practices		
5	PC.5	Apply the principles of milling wheat and Oil seeds		

AY: 2022-2023		Year/Sem: III/I	Course: Open Elective – I (RES)	Regulation: R20
S. No	Course Code	Course Outcome		
1	OE.1	Analyze solar radiation data, extra-terrestrial radiation, radiation on earth's surface and solar Energy Storage.		
2	OE.2	Illustrate the components of wind energy systems.		
3	OE.3	Illustrate the working of biomass, digesters and Geothermal plants.		
4	OE.4	Students will effectively select biomass and geothermal energy solutions.		
5	OE.5	Demonstrate the principle of Energy production from OTEC, Tidal and Waves		
6	OE.6	Evaluate the concept and working of Fuel cells & MHD power generation.		

AY: 2022-2023		Year/Sem: III/I	Course: (Professional Elective- I) Seed Processing and Storage Engineering	Regulation: R20
S. No	Course Code	Course Outcome		
1	PE.1	Estimate the moisture content by using different methods.		
2	PE.2	Calculate drying air temperature and air flow rate, air pressure within the grain bed.		
3	PE.3	Explain the causes for the spoilage in storage and calculate the parameters associated		
4	PE.4	Mastery in understanding the functional requirements of seed storage		
5	PE.5	Design grain storage structures		
6	PE.6	Analyze Grain handling equipment.		

AY: 2022-2023		Year/Sem: III/I	Course: Professional Ethics and Human Values	Regulation: R20
S. No	Course Code	Course Outcome		
1	MC.1	Judge the concepts of human values		
2	MC.2	Justify knowledge about the principles of engineering ethics.		
3	MC.3	Interpret engineering as social experimentation.		
4	MC.4	Realize engineers' responsibility for safety and risk.		
5	MC.5	: Realize engineers' responsibility for safety and risk.		

AY: 2022-2023		Year/Sem: III/II	Course: Soil and Water Conservation Engineering	Regulation: R20
S. No	Course Code	Course Outcome		
1	PC.1	Calculate Peak run off, time of conservation		
2	PC.2	Estimate soil loss by using Universal Soil Loss equation and modified soil loss equation		
3	PC.3	Discuss factors affecting wind erosion, mechanics of wind		
4	PC.4	Design contour bunds, graded bunds and bench terraces		
5	PC.5	Design vegetated water ways, WH Structures		

AY: 2022-2023		Year/Sem: III/II	Course: Farm Machinery and Equipment - II	Regulation: R20
S. No	Course Code	Course Outcome		
1	PC.1	Describe Crop harvesting machinery		
2	PC.2	Analyze the Power operated vertical conveyer reapers		
3	PC.3	Apply the threshing principles for all types of threshers		
4	PC.4	Analyze the factors affecting the harvesters.		
5	PC.5	Explain the features of cotton harvesting equipment.		

AY: 2022-2023		Year/Sem: III/II	Course: Agricultural Process Engineering	Regulation: R20
S. No	Course Code	Course Outcome		
1	PC.1	Discuss different types of Material handling devices		
2	PC.2	Analyze the effectiveness and mixing index for granular solids, mixing indices		
3	PC.3	Explain Aerodynamics of Agricultural product		
4	PC.4	Estimate moisture content in wet basis and dry basis for different types of grains		
5	PC.5	Apply milling principles for wheat, pulses and oil seeds.		

AY: 2022-2023		Year/Sem: III/II	Course: Watershed Management	Regulation: R20
S. No	Course Code	Course Outcome		
1	PE.1	Plan for watershed development		

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2	PE.2	Analyze the factors affecting the watershed management.
3	PE.3	Explain rainwater conservation technologies
4	PE.4	Learning dry farming methods for enhanced agricultural productivity in water-limited environments.
5	PE.5	Estimate the Effect of cropping systems, land management and cultural practices on watershed hydrology.
6	PE.6	Prepare project proposal for watershed management programme including cost-benefit analysis

AY: 2022-2023		Year/Sem: III/II	Course: Open Elective – II(EE)	Regulation: R20
S. No	Course Code	Course Outcome		
1	OE.1	Value safe water supply and environmental engineering's role.		
2	OE.2	Estimate water demand factoring in population growth.		
3	OE.3	Assess water sources for quality and quantity, meeting standards.		
4	OE.4	Apply treatment methods like sedimentation, filtration, disinfection.		
5	OE.5	Design efficient sewage systems, understanding operational challenges.		
6	OE.6	Analyze sewage characteristics, apply treatment for environmental protection.		

AY: 2022-2023		Year/Sem: IV/I	Course: Micro Irrigation Engineering	Regulation: R19
S. No	Course Code	Course Outcome		
1	PC.1	"Skill development on historical development of sprinkler irrigation in India & AP, components of sprinkler irrigation system. "		
2	PC.2	"Knowledge Acquiring on type of sprinkler irrigation systems, preaprtitation profiles & its distribution, its distribution due to wind, estimation of different uniformity, crop suitability under sprinkler systems. "		
3	PC.3	Explain about various micro irrigation systems		
4	PE.4	Explain about components of drip irrigation system. and pump selection principles.		
5	PC.5	Skill development on history of design of drip irrigation in India & AP, components of the drip[system, friction losses in pipe lines.		
6	PC.6	Skill development on the principles of emitting deices & their principles, construction details, hydraulic pressure variables along with principles, design of drip irrigation system, layout and automation of DIS & principles.		

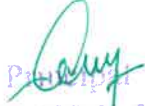
AY: 2022-2023	Year/Sem: IV/I	Course: Post Harvest Engineering for Horticulture Produce	Regulation: R19
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S. No	Course Code	Course Outcome
1	PC.1	Will have knowledge on pre and post harvest quality of fruits and vegetables.
2	PC.2	Gives an insight on handling and transportation of fruits and vegetables.
3	PC.3	Will have knowledge on post-harvest processing and storage of fruits and vegetables.
4	PC.4	Gets knowledge on methods of preparation of fruit and vegetable products
5	PC.5	Enable the student to learn the procedure for preservation and packaging of fruits and vegetables and their products

AY: 2022-2023		Year/Sem: IV/I	Course: Mechanical Measurements and Instrumentation	Regulation: R19
S. No	Course Code	Course Outcome		
1	OE.1	Explains the measurements for various types of instruments cited		
2	OE.2	Apply the knowledge of transducer in measuring Instruments		
3	OE.3	Apply the knowledge of various instruments in measuring pressure		
4	OE.4	Measures the strain and temperature using various instruments.		
5	OE.5	Apply the knowledge of instruments in measuring pressure and sound		

AY: 2022-2023		Year/Sem: IV/I	Course: Watershed Management	Regulation: R19
S. No	Course Code	Course Outcome		
1	PE.1	Skill development on basic principles of water development and various steps involved.		
2	PE.2	Skill acquiring on principles, concepts of watershed management, watershed planning, codification, prioritization of watersheds, sediment yield indese and water budgeting.		
3	PE.3	Understand and apply various management measures for water conservation and sustainable land use.		
4	PE.4	"Skills development on rain water conservation technologies, their concepts, principles for planning and design, Dryland techniques, integrated watershed management for arable, suni arid and with agriculture & horticulture, non arable technologies with fureshy, fishery and animal husbandry."		
5	PE.5	Skills development on watershed cropping systems & their diversification, its effects on hydrology suspense's, programme execution, monitoring & evaluation & watersheds.		
6	PE.6	Skills development in participatory watershed development and management, farmer institutions, formulation of watershed projects, socio economics.		

AY: 2022-2023		Year/Sem: IV/I	Course: GIS and Remote Sensing	Regulation: R19
S. No	Course Code	Course Outcome		
1	PE.1	Student will learn about the remote sensing data acquisition and analysis also the impartment of IRS Satellites		
2	PE.2	Student will know about image interpretation visuals		
3	PE.3	Student will learn the digital image processing		
4	PE.4	Student learn the application of RS in agricultural, geology and soil mapping Student will learn the data base management system using various GIS package		
5	PE.5			


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AY: 2022-2023		Year/Sem: IV/II	Course: Design of Agricultural Machinery	Regulation: R19
S. No	Course Code	Course Outcome		
1	OE.1	Imports knowledge on various moving and non-moving elements of agricultural machinery.		
2	OE.2	Explains the laws, forces, stress, factors involved in agricultural machines.		
3	OE.3	Explain the levers, springs, material and construction procedure.		
4	OE.4	Apply principles of strength of materials to determine the strength and effectiveness		
5	OE.5	Imports knowledge on designing of various types of shafts and keys.		
6	OE.6	Apply the knowledge for designing of agricultural machines.		

AY: 2022-2023		Year/Sem: IV/II	Course: Agro Industries and By-Products Utilization	Regulation: R19
S. No	Course Code	Course Outcome		
1	OE.1	Will have an idea about need and necessity of utilization of agro industries by products		
2	OE.2	Gets knowledge on processes to convert low value by products from agricultural and food industries to value added products.		
3	OE.3	Gets information on utilization of agro industries waste for reverse such as feed, paper and briquets		
4	OE.4	Understand the properties of agricultural waste.		
5	OE.5	Will get knowledge on treatment techniques of water waste from agricultural food industries and animal sheds for safe disposal.		

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AY: 2022-2023		Year/Sem: IV/II	Course: Design of Soil and Water Conservation and Form Systems	Regulation: R19
S. No	Course Code	Course Outcome		
1	PE.1	. Skill development on principles of hydraulics of open channel flow, their design and construction in the field, critical energy concepts, froud number and its application in hydraulics.		
2	PE.2	Skill development in the principles of hydrologic, hydraulic of runoff measuring structures in the stream flow, seepage dynamic across the structures.		
3	PE.3	Acquaintance with knowledge on principles of design and construction of climate spills ways, inlet drop structures, pipe spill way etc., irrigation structures and their design & construction.		
4	PE.4	Skill acquiring in structures used in the aerial water conveying system, their principles, design and constructions & cross draining works.		
5	PE.5	Skill development on principles of irrigation outlets, their design and construction, diversion head works, different weirs and barrages		

AY: 2022-2023		Year/Sem: IV/II	Course: Agricultural Extension Techniques and Business Management	Regulation: R19
S. No	Course Code	Course Outcome		
1	PC.1	Student can improve the improper the communication skills through various extension and management techniques.		
2	PC.2	It is useful to the student to know the various extension services through which the technologies are communicated to the farmers.		
3	PC.3	"Student can be well admitted with management such an decision making, importance, planning, organization, control & co-relational etc.		
4	PC.4	Application of Management Principles in Agribusiness		
5	PC.5	It is useful for the students to start Agro based industries		
6	PC.6	Students can be well acquainted with different trading system, like international trade WTO and export & import policy		

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Academic Year: 2022-2023		Year: I Semester: I	Course: MATHEMATICS-I	Regulation: R20
S.No.	Course Outcomes	Description		
1	C101.1	This course will illuminate the students in the concepts of calculus		
2	C101.2	To enlighten the learners in the concept of differential equations and multivariable calculus.		
3	C101.3	utilize mean value theorems to real life problem		
4	C101.4	solve the differential equations related to various engineering fields		
5	C101.5	familiarize with functions of several variables which is useful in optimization		

DEPARTMENT OF CYBER SECURITY				
Academic Year: 2022-2023		Year: I Semester: I	Course: APPLIED PHYSICS	Regulation: R20
S.No.	Course Outcomes	Description		
1	C102.1	Classify the energy bands of semiconductors(
2	C102.2	Interpret the direct and indirect band gap semiconductors(L2)		
3	C102.3	Identify the type of semiconductor using Hall effect		
4	C102.4	Identify applications of semiconductors in electronic devices		
5	C102.5	Classify superconductors based on Meissner's effect		

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DEPARTMENT OF CYBER SECURITY				
Academic Year: 2022-2023		Year: I Semester: I	Course: ENGLISH	Regulation: R20
S.No.	Course Outcomes	Description		
1	C103.1	understand social or transactional dialogues spoken by native speakers of English and		
2	C103.1	. ask and answer general questions on familiar topics and introduce oneself/others		
3	C103.2	employ suitable strategies for skimming and scanning to get the general idea of a text and		
4	C103.3	recognize paragraph structure and be able to match beginnings/endings/headings with		
5	C103.4	form sentences using proper grammatical structures and correct word forms		


DEPARTMENT OF CYBER SECURITY				
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 learn about the computer systems, computing environments, developing of a		
2	C104.2	To gain knowledge of the operators, selection, control statements and repetition in C		
3	C104.3	To learn about the design concepts of arrays, strings, enumerated structure and union		
4	C104.4) To assimilate about pointers, dynamic memory allocation and know the significance		
5	C104.5	To assimilate about File I/O and significance of functions		



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DEPARTMENT OF CYBER SECURITY				
Academic Year: 2022-2023		Year: I Semester: II	Course: M-II	Regulation: R20
S.No.	Course Outcomes	Description		
1	C105.1	At the end of the course, the student will be able to		
2	C105.2	Develop the use of matrix algebra techniques that is needed by engineers for practical		
3	C105.3	Solve system of linear algebraic equations using Gauss elimination, Gauss Jordan, Gauss Seidel		
4	C105.4	Evaluate the approximate roots of polynomial and transcendental equations by different		
5	C105.5	Apply Newton's forward & backward interpolation and Lagrange's formulae for equal		

DEPARTMENT OF CYBER SECURITY				
Academic Year: 2022-2023		Year: I Semester: II	Course: APPLIED CHEMISTRY	Regulation: R20
S.No.	Course Outcomes	Description		
1	C106.1	At the end of this unit, the students will be able to		
2	C106.2	Utilize the theory of construction of electrodes		
3	C106.3	Batteries and fuel cells in redesigning		
4	C106.4	Engineering products and categorize the reasons		
5	C106.5	Corrosion and study methods to control		


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DEPARTMENT OF CYBER SECURITY				
Academic Year: 2022-2023		Year: I Semester: II	Course: BEE	Regulation: R20
S.No.	Course Outcomes	Description		
1	C107.1	Study the basic DC and AC networks used in electrical circuits		
2	C107.2	Study the basic concepts of electrical engineering.		
3	C107.3	Demonstrate the concepts of electrical wiring and safety		
4	C107.4	To understand the principle of operation and construction details of DC machines &		
5	C107.5	To understand the principle of operation and construction details of alternator and 3-Phase		

DEPARTMENT OF CYBER SECURITY				
Academic Year: 2022-2023		Year: I Semester: II	Course: PYTHON PROGRAMMING	Regulation: R20
S.No.	Course Outcomes	Description		
1	C108.1	Develop essential programming skills in computer programming concepts like data		
2	C108.2	Apply the basics of programming in the Python language		
3	C108.3	Solve coding tasks related conditional execution, loops		
4	C108.4	Solve coding tasks related to the fundamental notions and techniques used in object-oriented		
5	C108.5	Apply the basics of programming in the Python language		

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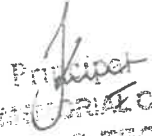
DEPARTMENT OF CYBER SECURITY				
Academic Year: 2022-2023		Year: I Semester: II	Course: DLD	Regulation: R20
S.No.	Course Outcomes	Description		
1	C109.1	A student who successfully fulfills the course requirements will have demonstrated:		
2	C109.2	An ability to define different number systems, binary addition and subtraction, 2's complement		
3	C109.3	An ability to understand the different switching algebra theorems and apply them for logic		
4	C109.4	An ability to define the Karnaugh map for a few variables and perform an algorithmic reduction of		
5	C109.5	Students will be able to design various logic gates starting from simple ordinary gates to complex		

DEPARTMENT OF CYBER SECURITY				
Academic Year: 2022-2023		Year: IIS Semester: I	Course: M-III	Regulation: R20
S.No.	Course Outcomes	Description		
1	C201.1	Interpret the physical meaning of different operators such as gradient, curl and		
2	C201.2	Estimate the work done against a field, circulation and flux using vector calculus		
3	C201.3	Apply the Laplace transform for solving differential equations		
4	C201.4	Know and be able to apply integral expressions for the forwards and inverse Fourier		
5	C201.5	Identify solution methods for partial differential equations that model physical processes (L3)		


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DEPARTMENT OF CYBER SECURITY				
Academic Year: 2022-2023		Year: II semester: I	Course: MFCS	Regulation: R20
S.No.	Course Outcomes	Description		
1	C202.1	Demonstrate skills in solving mathematical problems		
2	C202.2	<ul style="list-style-type: none"> • Comprehend mathematical principles and logic 		
3	C202.3	<ul style="list-style-type: none"> • Demonstrate knowledge of mathematical modeling and proficiency in using mathematical 		
4	C202.4	Manipulate and analyze data numerically and/or graphically using appropriate Software		
5	C202.5	<ul style="list-style-type: none"> • Communicate effectively mathematical ideas/results verbally or in writing 		

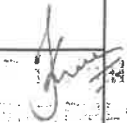

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DEPARTMENT OF CYBER SECURITY				
Academic Year: 2022-2023		Year: II Semester: I	Course: DS	Regulation: R20
S.No.	Course Outcomes	Description		
1	C203.1	Summarize the properties, interfaces, and behaviors of basic abstract datatypes		
2	C203.2	Discuss the computational efficiency of the principal algorithms for sorting & searching		
3	C203.3	Use arrays, records, linked structures, stacks, queues, trees, and Graphs in writing		
4	C203.4	Demonstrate different methods for traversing trees		
5	C203.5	Describe how arrays, records, linked structures, stacks, queues, trees, and graphs		


DEPARTMENT OF CYBER SECURITY				
Academic Year: 2022-2023		Year: II Semester: I	Course: OS	Regulation: R20
S.No.	Course Outcomes	Description		
1	C204.1	<ul style="list-style-type: none"> Describe various generations of Operating System and functions of Operating System 		
2	C204.2	<ul style="list-style-type: none"> Describe the concept of program, process and thread and analyze various CPU Scheduling 		
3	C204.3	Solve Inter Process Communication problems using Mathematical Equations by various.		
4	C204.4	<ul style="list-style-type: none"> Compare various Memory Management Schemes especially paging and Segmentation in 		
5	C204.5	Outline File Systems in Operating System like UNIX/Linux and Windows		


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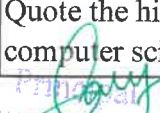
DEPARTMENT OF CYBER SECURITY				
Academic Year: 2022-2023		Year: II Semester: I	Course: JAVA	Regulation: R20
S.No.	Course Outcomes	Description		
1	C205.1	Able to realize the concept of Object Oriented Programming & Java Programming Constructs		
2	C205.2	Able to describe the basic concepts of Java such as operators, classes, objects, inheritance,		
3	C205.3	Apply the concept of exception handling and Input/ Output operations		
4	C205.4	Able to design the applications of Java & Java applet		
5	C205.5	Able to Analyze & Design the concept of Event Handling and Abstract Window Toolkit		

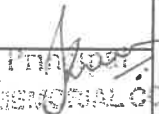

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DEPARTMENT OF CYBER SECURITY			
Academic Year: 2022-2023		Year: II Semester: II	Course: P&S Regulation: R20
S.No.	Course Outcomes	Description	
1	C206.1	• Classify the concepts of data science and its importance (L4) or (L2)	
2	C206.2	Interpret the association of characteristics and through correlation and regression tools	
3	C206.3	Make use of the concepts of probability and their applications (L3)	
4	C206.4	Apply discrete and continuous probability distributions (L3)	
5	C206.5	Design the components of a classical hypothesis test (L6)	

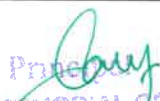
DEPARTMENT OF CYBER SECURITY			
Academic Year: 2022-2023		Year: IIS Semester: II	Course: FLAT Regulation: R20
S.No.	Course Outcomes	Description	
1	C207.1	• Classify machines by their power to recognize languages.	
2	C207.2	• Summarize language classes & grammars relationship among them	
3	C207.3	Employ finite state machines to solve problems in computing	
4	C207.4	Illustrate deterministic and non-deterministic machines	
5	C207.5	Quote the hierarchy of problems arising in the computer science	



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DEPARTMENT OF CYBER SECURITY			
Academic Year: 2022-2023		Year: II Semester: II	Course: CO&A Regulation: R20
S.No.	Course Outcomes	Description	
1	C208.1	Understand working of logic families and logic gates.	
2	C208.2	Design and implement Combinational and Sequential logic circuits.	
3	C208.3	<ul style="list-style-type: none"> Solve elementary problems by assembly language programming 	
4	C208.4	Implement assembly language program for given task for 8086 microprocessor..	
5	C208.5	<ul style="list-style-type: none"> Know the characteristics of various components. 	

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Academic Year: 2022-2023		Year: II Semester: II	Course: MEFA Regulation: R20
S.No.	Course Outcomes	Description	
1	C209.1	<ul style="list-style-type: none"> The Learning objectives of this paper are to understand the concept and nature of Managerial 	
2	C209.2	<ul style="list-style-type: none"> To familiarize about the Production function, Input Output relationship, Cost-Output 	
3	C209.3	To understand the nature of markets, Methods of Pricing in the different market structures and	
4	C209.4	To learn different Accounting Systems, preparation of Financial Statement and uses of	
5	C209.5	Finally, it is also to understand the concept of Capital, Capital Budgeting and the techniques	


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D DEPARTMENT OF CYBER SECURITY			
Academic Year: 2022-2023		Year: II Semester: II	Course: DBMS Regulation: R20
S.No.	Course Outcomes	Description	
1	C210.1	• Describe a relational database and object-oriented database	
2	C210.2	Create, maintain and manipulate a relational database using SQL	
3	C210.3	• Describe ER model and normalization for database design	
4	C210.4	• Examine issues in data storage and query processing and can formulate appropriate	
5	C210.5	Outline the role and issues in management of data such as efficiency, privacy, security, ethical	


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Academic Year: 2022-2023		Year: III Semester: I	Course: COMPUTER NETWORKS Regulation: R20
S.No.	Course Outcomes	Description	
1	C301.1	Illustrate the OSI and TCP/IP reference model	
2	C301.2	Analyze MAC layer protocols and LAN technologies	
3	C301.3	Design applications using internet protocols	
4	C301.4	Implement routing and congestion control algorithms	
5	C301.5	Develop application layer protocols	

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DEPARTMENT OF CYBER SECURITY				
Academic Year: 2021-2022		Year: III Semester: I	Course: SOFTWARE ENGINEERING	Regulation: R20
S.No.	Course Outcomes	Description		
1	C302.1	Ability to transform an Object-Oriented Design into high quality, executable code		
2	C302.2	Skills to design, implement, and execute test cases at the Unit and Integration level		
3	C302.3	Compare conventional and agile software methods		
4	C302.4	The underlying parametric surface concepts be understood		
5	C302.5	Understand the fundamental concepts and theory of computer software engineering		

DEPARTMENT OF CYBER SECURITY				
Academic Year: 2022-2023		Year: III Semester: I	Course: DESIGN AND ANALYSIS OF ALGORITHMS	Regulation: R20
S.No.	Course Outcomes	Description		
1	C303.1	At the end of the course, the students will be able to.		
2	C303.2	Describe asymptotic notation used for denoting performance of algorithms		
3	C303.3	Analyse the performance of a given algorithm and denote its time complexity using the asymptotic		
4	C303.4	List and describe various algorithmic approaches		
5	C303.5	Solve problems using divide and conquer, greedy, dynamic programming, backtracking		

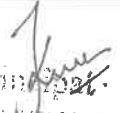

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DEPARTMENT OF CYBER SECURITY				
Academic Year: 2021-2022		Year: III Semester: I	Course: COMPUTER GRAPHICS	Regulation: R20
S.No.	Course Outcomes	Description		
1	C304.1	Upon successful completion of the course, students will be able to.		
2	C304.2	Use the principles and commonly used paradigms and techniques of computer graphics		
3	C304.3	Write basic graphics application programs including animation		
4	C304.4	Design programs to display graphic images to given specifications		
5	C304.5	Understand the fundamental concepts and theory of computer graphics		

DEPARTMENT OF CYBER SECURITY				
Academic Year: 2021-2022		Year: III Semester: I	Course: ARTIFICIAL INTELLIGENCE	Regulation: R20
S.No.	Course Outcomes	Description		
1	C305.1	Outline problems that are amenable to solution by AI methods, and which AI methods may be suited to		
2	C305.2	Apply the language/framework of different AI methods for a given problem		
3	C305.3	Implement basic AI algorithms- standard search algorithms or dynamic programming		
4	C305.4	Design and carry out an empirical evaluation of different algorithms on problem formalization.		
5	C305.5	understanding of some of the more advanced topics of AI such as learning, natural language.		


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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING			
Academic Year: 2022-2023		Year: III Semester: II	Course: C&NS Regulation: R20
S.No.	Course Outcomes	Description	
1	C306.1	Identify information security goals, classical encryption techniques and acquire	
2	C306.2	<ul style="list-style-type: none"> • Compare and apply different encryption and decryption techniques to solve problem 	
3	C306.3	<ul style="list-style-type: none"> • Apply the knowledge of cryptographic checksums and evaluate the performance of 	
4	C306.4	Apply different digital signature algorithms to achieve authentication and create	
5	C306.5	Apply network security basics, analyze different attacks on networks and evaluate the	

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING			
Academic Year: 2022-2023		Year: III Semester: II	Course: ML Regulation: R20
S.No.	Course Outcomes	Description	
1	C307.1	. Identify machine learning techniques suitable for a given problem	
2	C307.2	Solve the problems using various machine learning techniques	
3	C307.3	<ul style="list-style-type: none"> • Apply Dimensionality reduction techniques 	
4	C307.4	Design application using machine learning techniques	
5	C307.5	Learn about Dimensionality reduction	

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING			
Academic Year: 2022-2023		Year: III Semester: II	Course: I to CS Regulation: R20
S.No.	Course Outcomes	Description	
1	C308.1	• Cyber Security architecture principles	
2	C308.2	• Identifying System and application security threats and vulnerabilities	
3	C308.3	Identifying different classes of attacks	
4	C308.4	Cyber Security incidents to apply appropriate response	
5	C308.5	Describing risk management processes and practices	

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