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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		

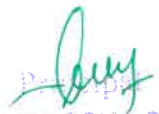
Department Of Electronics And Communication Engineering				
AcademicYear:2022-2023		Year: I Semester: I	Course: MATHEMATICS-1	Regulation:R20
S.No.	Course Outcomes	Description		
1	C102.1	Utilize mean value theorems to real life problems (L3)		
2	C102.2	Solve the differential equations related to various 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		

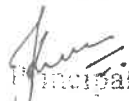

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Department Of Electronics And Communication Engineering			
AcademicYear:2022-2023		YEAR AND SEM=1-2	Course: MATHEMATICS-II Regulation:R20
S.No.	Course Outcomes	Description	
1	C105.1	develop the use of matrix algebra techniques that is needed by engineers 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)	


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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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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	


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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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Department Of Electronics And Communication Engineering			
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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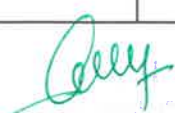

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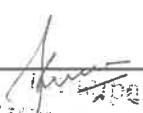
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AcademicYear:2022-2023		YEAR AND SEM=2-1	Course: EDC Regulation:R20
S.No.	Course Outcomes	Description	
1	C201.1	Apply the basic concepts of semiconductor physics.	
2	C201.2	Understand the formation of p-n junction and how it can be used as ap- n junction 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	

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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).	

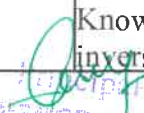
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AcademicYear:2022-2023		YEAR AND SEM=2-1	Course:RVSP Regulation:R20
S.No.	Course Outcomes	Description	
1	C204.1	Mathematically model the random phenomena and solve simple probabilistic problems	
2	C204.2	Identify different types of random variables 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	

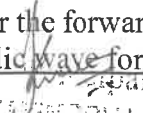

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AcademicYear:2022-2023		YEAR AND SEM=2-1	Course: MATHEMATICS-III Regulation:R20
S.No.	Course Outcomes	Description	
1	C205.1	Interpret the physical meaning of different operators such as gradient, curl and divergence (L5)	
2	C205.1	Estimate the work 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)	

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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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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	

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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	

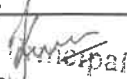
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AcademicYear:2022-2023		YEAR AND SEM=2-2	Course: AC	Regulation:R20
S.No.	Course Outcomes	Description		
1	C209.1	Differentiate various Analog modulation and demodulation schemes and their spectral characteristics		
2	C209.2	Analyze noise characteristics 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		


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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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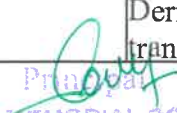
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AcademicYear:2022-2023		YEAR AND SEM=2-2	Course:
		Regulation:R20	
S.No.	Course Outcomes	Description	
1	C211.1	After completion of the Course the student will acquire the knowledge on management functions, global leadership and organizational structure	
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	

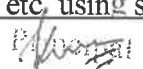

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Department Of Electronics And Communication Engineering				
AcademicYear:2022-2023		YEAR AND SEM=3-1	Course: AICA	Regulation:R20
S.No.	Course Outcomes	Description		
1	C301.1	Describe the Op-Amp and internal Circuitry: 555 Timer, PLL		
2	C301.2	Discuss 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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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.		

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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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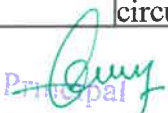
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S.No.	Course Outcomes	Description		
1	C307.1	Students can understand the architecture of modern computer		
2	C307.2	They can analyze the Performance of a computer using performance equation		
3	C307.3	Understanding of different instruction types		
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.		

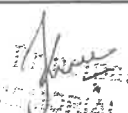
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AcademicYear:2022-2023		YEAR AND SEM=3-2	Course: MPMC
		Regulation:R20	
S.No.	Course Outcomes	Description	
1	C308.1	Understand the architecture of microprocessor/ microcontroller and their operation.	
2	C308.2	Demonstrate programming skills in assembly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

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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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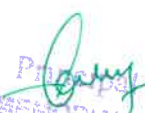

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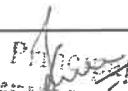
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AcademicYear:2022-2023		YEAR AND SEM=3-2	Course: DSP	Regulation:R20
S.No.	Course Outcomes	Description		
1	C310.1	Apply the difference equations concept in the analysis of Discrete time systems		
2	C310.2	Use the FFT algorithm for solving the DFT of 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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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	


 Principal
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