

Department OF ECE

Course Outcomes

Course Title:	ELECTRONIC DEVICES & CIRCUITS
Programme:	B.Tech
Academic Year	2019-20
Year/Semester:	II-I
Regulation:	R19
Subject Code:	R1621041
Name of the Faculty:	K VENKANNA

COURSE OUTCOMES(COs): Upon completion of the course, students will be able to:

S.No.	Course Outcomes	Blooms Taxonomy level
CO1	To study the characteristics of semiconductor devices and acquire basic knowledge on the working of various semi-conductor devices	Apply
CO 2	Study the characteristics of different semiconductor devices like diode, Zener, UJT etc experimentally	Understand
CO 3	Study the characteristics of Rectifiers and Filters experimentally	Understand
CO 4	Acquire in-depth knowledge on internal circuits of BJT and FET.	Analyze
CO 5	Knowledge of determination of stability of transistors and thermal stabilization	Analyze
CO 6	Develop analytical capability in analysing signal generation, signal amplification, signal conditioning and signal processing applications of BJT and FET small signals.	Analyze

SREE VAHINI INSTITUTE OF SCIENCE & TECHNOLOGY: TIRUVURU

Department OF ECE

Course Outcomes

Course Title:	NETWORK ANALYSIS
Programme:	B. Tech
Academic Year	2019-20
Year/Semester:	II-I
Regulation:	R16
Subject Code:	R1621044
Name of the Faculty:	Mr. M. Hari Krishna

COURSE OUTCOMES(COs): Upon completion of the course, students will be able to:

S.No.	Course Outcomes	Blooms Taxonomy level
CO1	Obtain the awareness of basic circuit elements	Apply
CO 2	Detailed study of R, L and C circuit combinations	Understand
CO 3	Know the periodic and Non periodic waveforms performance in various circuits	Understand
CO 4	Obtain the knowledge in characteristics of 2-port network parameters like Z, Y, h, g and ABCD	Analyze
CO 5	Understand the concepts of filter design in real world applications	Analyze

SREE VAHINI INSTITUTE OF SCIENCE & TECHNOLOGY,

Department of Electronics and Communications Engineering

Course Outcomes

Course Title:	Managerial Economics and Financial Analysis
Programme:	B.Tech
Academic Year	2019-20
Year/Semester:	II/I
Regulation:	R16
Subject Code:	R1621026
Name of the Faculty:	Mr.Dr.N.Suresh Babu

1. COURSE OUTCOMES(COs):

Upon completion of the course, students will be able to:

S.No.	Course Outcomes	Blooms Taxonomy level
CO1	To introduce micro as well as macro, economic concepts that are useful in business decision making	Apply
CO 2	To introduce the concepts of cost and significance, limitation of Break even analysis.	Apply
CO 3	To master the basic tools of microeconomics: supply and demand analysis; firms' production and pricing decisions, market equilibrium and market structure analysis.	Apply
CO 4	The objective of this course is to acquaint the students regarding various accounting concepts and its application in managerial decision making	Apply
CO 5	To enable the students to analyze a company's financial statements and come to a reasoned conclusion about the financial situation of the company.	Analyze
CO 6	To provide the optimal decisions acquiring the knowledge on financial accounting and its analysis	Understand

Department OF ECE

Course Outcomes

Course Title:	RANDOM VARIABLE AND STOCHASTIC PROCESS
Programme:	B.Tech
Academic Year	2019-20
Year/Semester:	II-I
Regulation:	R19
Subject Code:	R1621044
Name of the Faculty:	Mrs P. DHANALAKSHMI

COURSE OUTCOMES(COs): Upon completion of the course, students will be able to:

S.No.	Course Outcomes	Blooms Taxonomy level
CO1	Mathematically model the random variables and solve simple probabilistic problems	Apply
CO 2	Identify different types of random variables and compute statistical average of these random variables	Apply
CO 3	Characterize the random process in the time and frequency domains	Understand
CO 4	Analyze the LTI systems with random inputs	Understand
CO 5	Apply the principles of a random process in system concepts	Analyze

Department OF ECE

Course Outcomes

Course Title:	Signals & Systems
Programme:	B.Tech
Academic Year	2019-20
Year/Semester:	II-I
Regulation:	R19
Subject Code:	R1621043
Name of the Faculty:	Mr.T RAMESH

COURSE OUTCOMES(COs): Upon completion of the course, students will be able to:

S.No.	Course Outcomes	Blooms Taxonomy level
CO1	Characterize the signals and systems and principles of vector spaces, Concept of orthogonality.	Apply
CO 2	Analyze the continuous-time signals and continuous-time systems using Fourier series, Fourier transform and Laplace transform	Apply
CO 3	Apply sampling theorem to convert continuous-time signals to discrete-time signal and reconstruct back and Understand the relationships among the various representations of LTI systems	Understand
CO 4	Understand the Concepts of convolution, correlation, Energy and Power density spectrum and their relationships	Analyze
CO 5	Apply z-transform to analyze discrete-time signals and systems	Analyze

Department OF ECE

Course Outcomes

Course Title:	Switching Theory and Logic Design
Programme:	B.Tech
Academic Year	2019-20
Year/Semester:	II-I
Regulation:	R19
Subject Code:	R1621042
Name of the Faculty:	Mrs M ANUSHA

COURSE OUTCOMES(COs): Upon completion of the course, students will be able to:

S.No.	Course Outcomes	Blooms Taxonomy level
CO1	Able to manipulate numeric information in different forms, e.g. different bases, signed integers, various codes such as ASCII, gray, and BCD.	Apply
CO 2	Able to manipulate the different logics using NAND and NOR gates	Apply
CO 3	Able to manipulate simple Boolean expressions using the theorems and postulates of Boolean algebra and to minimize combinational functions.	Understand
CO 4	Able to design and analyze small combinational circuits and to use standard combinational functions/building blocks to build larger more complex circuits.	Analyze
CO 5	Able to design and analyze small sequential circuits and devices and to use standard sequential functions/building blocks to build larger more complex circuits	Analyze

Department OF ECE

Course Outcomes

Course Title:	ELECTRONIC DEVICES & CIRCUITS LAB
Programme:	B.Tech
Academic Year	2019-20
Year/Semester:	II-I
Regulation:	R19
Subject Code:	R1621047
Name of the Faculty:	K VENKANNA

COURSE OUTCOMES(COs): Upon completion of the course, students will be able to:

S.No.	Course Outcomes	Blooms Taxonomy level
CO1	Understand the fundamentals of construction of the semiconducting material, fabrication of elements, working principles and operation of semiconductors.	Apply
CO 2	Analyze the concept with the working principles of forward and reverse bias characteristics.	Understand
CO 3	Demonstrate the basic skills in design and analysis of filter circuits, biasing circuits.	Understand
CO 4	Discriminate the principle, construction and operation of BJTs, FETs and MOSFETs.	Understand
CO 5	Interpret the different techniques for FET and MOSFET circuit designs, performance and analysis-volt amp characteristics of BJT and FET amplifiers	Analyze
CO 6	Analyze the small signal low frequency Transistor amplifiers using h-parameters	Analyze

SREE VAHINI INSTITUTE OF SCIENCE AND TECHNOLOGY::TIRUVURU

Department of Electrical and Electronics Engineering

Course Outcomes

Course Title:	N&ET LAB
Programme:	B.Tech
Academic Year	2019-20
Year/Semester:	II/I
Regulation:	R16
Subject Code:	R1621044
Name of the Faculty:	G VENKAT

I. COURSE OUTCOMES(COs):

S.No.	Course Outcomes	Blooms Taxonomy level
CO1	Obtain the knowledge on basic network elements.	ANALYSIS
CO 2	Analyze the RLC circuits behavior in detailed.	ANALYSIS
CO 3	Analyze the performance of periodic waveforms.	UNDERSTAND
CO 4	Understand the knowledge in characteristics of two port network parameters (Z, Y, ABCD, h & g).	APPLY
CO 5	Analyze the filter design concepts in real world applications	APPLY

Upon completion of the course, students will be able to:

Department OF ECE

Course Outcomes

Course Title:	Antennas and Wave Propagation
Programme:	B.Tech
Academic Year	2019-20
Year/Semester:	III-I
Regulation:	R19
Subject Code:	R1631045
Name of the Faculty:	Mr. K Venkanna

COURSE OUTCOMES(COs): Upon completion of the course, students will be able to:

S.No.	Course Outcomes	Blooms Taxonomy level
CO1	Basic antenna parameters identification	Apply
CO 2	Design & analyze wire antennas, loop antennas, reflector antennas, lence antennas ,horn antennas & micro strip antennas	Apply
CO 3	Quantify the fields radiated by various types of antennas	Understand
CO 4	analyze antenna measurements to assess antennas performance	Analyze
CO 5	Identify the characteristics of radio wave propagation	Analyze

Sree Vahini Institute of Science & Technology::Tiruvuru

Department Of Computer Science and Engineering

Course Outcomes

Course Title:	COMPUTER ARCHITECTURE & ORGANIZATION
Programme:	B.Tech
Academic Year	2019-20
Year/Semester:	III/I
Regulation:	R16
Subject Code:	R1631041
Name of the Faculty:	P.SOMARAJU

II. COURSE OUTCOMES(COs):

Upon completion of the course, students will be able to:

S.No.	Course Outcomes	Blooms Taxonomy level
CO1	Understand the architecture of modern computer.	Understand
CO 2	Analyze the Performance of a computer using performance equation	Create
CO 3	Understanding of different instruction types.	Analyze
CO 4	Calculate the effective address of an operand by addressing modes	Evalute
CO 5	Analyze how computer stores positive and negative numbers	Analyze
CO6	understand to computer performs positive and negative numbers	Understand

Department OF ECE

Course Outcomes

Course Title:	DIGITAL IC APPLICATIONS
Programme:	B.Tech
Academic Year	2019-20
Year/Semester:	III-I
Regulation:	R19
Subject Code:	R1631043
Name of the Faculty:	Mrs. M Anusha

COURSE OUTCOMES(COs): Upon completion of the course, students will be able to:

S.No.	Course Outcomes	Blooms Taxonomy level
CO1	Obtain the awareness of basic Digital Ic Applications.	Apply
CO 2	Detailed study of static and dynamic of various logic families and their interfacing.	Apply
CO 3	Obtain the knowledge at various levels of abstractions using IEEE standard 1076 hardware description language (V HDL).	Understand
CO 4	Understanding the concepts of combinational and sequential logic circuit using VHDC.	Analyze
CO 5	Conconstruct melay and moore types of FSMS.	Analyze

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Department OF ECE

Course Outcomes

Course Title:	LINEAR IC APPLICATIONS
Programme:	B.Tech
Academic Year	2019-20
Year/Semester:	III-I
Regulation:	R19
Subject Code:	R1631042
Name of the Faculty:	Mr. M Vara Prasad

COURSE OUTCOMES(COs): Upon completion of the course, students will be able to:

S.No.	Course Outcomes	Blooms Taxonomy level
CO1	Design circuits using operational amplifiers for various applications	Apply
CO 2	Diagnose and trouble-shoot linear electronic circuits.	Apply
CO 3	Analyze and design amplifiers and active filters using Op-amp.	Understand
CO 4	Understand thoroughly the operational amplifiers with linear integrated circuits.	Analyze
CO 5	Understand the gain-band width concept and frequency response of the amplifier configurations	Analyze

Department OF ECE

Course Outcomes

Course Title:	DIGITAL COMMUNICATION
Programme:	B.Tech
Academic Year	2019-20
Year/Semester:	III-I
Regulation:	R19
Subject Code:	: R1631044
Name of the Faculty:	Mrs. M Anusha

COURSE OUTCOMES(COs): Upon completion of the course, students will be able to:

S.No.	Course Outcomes	Blooms Taxonomy level
CO1	Evaluate the performance of different Waveform coding methods for the generation and digital signals and its representation.	Apply
CO 2	Calculate the probability of error for various types of digital modulation schemes.	Apply
CO 3	Determine different source coding methods.	Understand
CO 4	Calculate and examine different error control coding schemes for the reliable transmission of digital information over the channel.	Analyze

Department OF ECE

Course Outcomes

Course Title:	Digital IC Applications Lab
Programme:	B.Tech
Academic Year	2019-20
Year/Semester:	III-I
Regulation:	R19
Subject Code:	R1631048
Name of the Faculty:	Mrs B Rajya Lakshmi

COURSE OUTCOMES(COs): Upon completion of the course, students will be able to:

S.No.	Course Outcomes	Blooms Taxonomy level
CO1	Able to understand HDL Basics	Apply
CO 2	Combinational logic design using VHDL	Analyze
CO 3	Sequential logic design using VHDL	Analyze

SREE VAHINI INSTITUTE OF SCIENCE & TECHNOLOGY: TIRUVURU

Department OF ECE

Course Outcomes

Course Title:	LINEAR IC APPLICATIONS LAB
Programme:	B.Tech
Academic Year	2019-20
Year/Semester:	III-I
Regulation:	R19
Subject Code:	R1631047
Name of the Faculty:	Mr. M Vara Prasad

COURSE OUTCOMES(COs): Upon completion of the course, students will be able to:

S.No.	Course Outcomes	Blooms Taxonomy level
CO1	Design circuits using operational amplifiers for various applications	Apply
CO 2	Diagnose and trouble-shoot linear electronic circuits.	Apply
CO 3	Analyze and design amplifiers and active filters using Op-amp.	Understand
CO 4	Understand thoroughly the operational amplifiers with linear integrated circuits.	Analyze
CO 5	Understand the gain-band width concept and frequency response of the amplifier configurations	Analyze

Department OF ECE

Course Outcomes

Course Title:	PULSE AND DIGITAL CIRCUITS LAB
Programme:	B.Tech
Academic Year	2019-20
Year/Semester:	III-I
Regulation:	R19
Subject Code:	R1631046
Name of the Faculty:	Mrs.D Umamaheswari

COURSE OUTCOMES(COs): Upon completion of the course, students will be able to:

S.No.	Course Outcomes	Blooms Taxonomy level
CO1	Design various linear & non-linear circuits and analyze their response	Apply
CO 2	Design and generate various types of non-sinusoidal waveforms using multivibrators	Apply
CO 3	Design current and voltage sweep circuits based on given specifications.	Understand
CO 4	Design various digital logic circuits.	Analyze

Department of Computer Science and Engineering

Course Outcomes

Course Title:	COMPUTER NETWORKS
Programme:	B. Tech
Academic Year	2019-20
Year/Semester:	IV/I
Regulation:	R16
Subject Code:	R1641043
Name of the Faculty:	K. GOPI

III. COURSE OUTCOMES(COs):

Upon completion of the course, students will be able to:

S.No.	Course Outcomes	Blooms Taxonomy level
CO1	Understand OSI and TCP/IP models	Understand
CO2	Analyze MAC layer protocols and LAN technologies	Analyze
CO3	Design applications using internet protocols	Apply
CO4	Understand routing and congestion control algorithms	Understand
CO5	Understand how internet works	Understand

Department OF ECE

Course Outcomes

Course Title:	Digital Image Processing
Programme:	B.Tech
Academic Year	2019-20
Year/Semester:	IV-I
Regulation:	R19
Subject Code:	R1641042
Name of the Faculty:	Mr. M Hari Krishna

COURSE OUTCOMES(COs): Upon completion of the course, students will be able to:

S.No.	Course Outcomes	Blooms Taxonomy level
CO1	Familiar about digital images and able to perform image processing operations	Apply
CO 2	Implement image enhancement and image segmentation techniques with graphical analysis	Apply
CO 3	Understand about image restoration and reconstruction processes applying degradation models	Understand
CO 4	Know the mathematical analysis about image compression methods	Analyze
CO 5	Awareness about wavelets and morphological image processing	Analyze

Department OF ECE

Course Outcomes

Course Title:	Embedded Systems
Programme:	B.Tech
Academic Year	2019-20
Year/Semester:	IV-I
Regulation:	R19
Subject Code:	R164104D
Name of the Faculty:	Mrs. D Uma maheswari

COURSE OUTCOMES(COs): Upon completion of the course, students will be able to:

S.No.	Course Outcomes	Blooms Taxonomy level
CO1	Understand the basic concepts of an embedded system & able to know an embedded system design approach to perform a specific function.	Apply
CO 2	the hardware components required to Design an Embedded hardware	Apply
CO 3	Different types of embedded firmware design approaches on embedded environment	Understand
CO 4	understand how to integrate hardware & software of an embedded system using real time operating system.	Analyze

Department OF ECE

Course Outcomes

Course Title:	OPTICAL COMMUNICATIONS
Programme:	B.Tech
Academic Year	2019-20
Year/Semester:	IV-I
Regulation:	R19
Subject Code:	R1641044
Name of the Faculty:	Mrs. B Supraja

COURSE OUTCOMES(COs): Upon completion of the course, students will be able to:

S.No.	Course Outcomes	Blooms Taxonomy level
CO1	Select proper components required in Optical communications systems.	Apply
CO 2	Design and form optical fiber experiments in the laboratory, and learn how to calculate electromagnetic modes in waveguides, the amount of light lost going through an optical system, dispersion of optical fibres.	Apply
CO 3	Use different types of photo detectors and optical test equipment to analyze optical fiber and light wave systems.	Understand
CO 4	Choose the optical cables for better communication with minimum losses Design Build and demonstrate optical fiber experiments in the laboratory.	Analyze

Department OF ECE

Course Outcomes

Course Title:	Radar Systems
Programme:	B. Tech
Academic Year	2019-20
Year/Semester:	IV-I
Regulation:	R19
Subject Code:	R1641041
Name of the Faculty:	Mr. Ch Kutumba Rao

COURSE OUTCOMES(COs): Upon completion of the course, students will be able to:

S.No.	Course Outcomes	Blooms Taxonomy level
CO1	Demonstrate the basic principle of RADAR System, and RADAR Equation.	Apply
CO 2	Analyze and understand the different types of radars and their applications.	Analyze
CO 3	Understand the concept of travelling and to understand different travelling methods.	Understand
CO 4	Recognize the various components of radar receiver and its performance.	Analyze
CO 5	Draw and Analyze FM-CW and MTI radar working, and their principles.	Analyze

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Department OF ECE

Course Outcomes

Course Title:	Television engineering
Programme:	B.Tech
Academic Year	2019-20
Year/Semester:	IV-I
Regulation:	R19
Subject Code:	R164104A
Name of the Faculty:	Mr. Ch Gopala Krishna

COURSE OUTCOMES(COs): Upon completion of the course, students will be able to:

S.No.	Course Outcomes	Blooms Taxonomy level
CO1	Understand the building blocks used in radio and television systems	Apply
CO 2	Analyze and determine the performance of transmitter and receiver circuits	Apply
CO 3	Understand the principles of Color Television operation	Understand
CO 4	Compare the performance of TV standards and cameras	Analyze

Department OF ECE

Course Outcomes

Course Title:	Microwave and Optical Communication lab
Programme:	B.Tech
Academic Year	2019-20
Year/Semester:	IV-I
Regulation:	R19
Subject Code:	R1641047
Name of the Faculty:	Mr.Ch Kutumba Rao

COURSE OUTCOMES(COs): Upon completion of the course, students will be able to:

S.No.	Course Outcomes	Blooms Taxonomy level
CO1	Able to identify and demonstrate the working of various microwave and optical components.	Apply
CO 2	Able to analyze Microwave Passive Devices by conducting experiments and measuring various parameters	Apply
CO 3	Able to analyze the characteristics of Optical Sources like LED, LASER Diode, by conducting experiments and measuring various parameters	Understand
CO 4	Able to analyze the characteristics of optical fiber by conducting experiments and measuring various parameters.	Analyze
CO 5	Able to analyze antenna performance by conducting experiments and measuring various parameters	Analyze

Department OF ECE

Course Outcomes

Course Title:	Digital signal processing lab
Programme:	B.Tech
Academic Year	2019-20
Year/Semester:	IV-I
Regulation:	R19
Subject Code:	R1641048
Name of the Faculty:	Mr.CH.Gopala krishna

COURSE OUTCOMES(COs): Upon completion of the course, students will be able to:

S.No.	Course Outcomes	Blooms Taxonomy level
CO1	Understand the handling of discrete/digital signals using MATLAB	Understand
CO 2	Understand the basic operations of Signal processing	Understand
CO 3	Analyse the spectral parameter of window functions	Analyze
CO 4	Design IIR, and FIR filters for band pass, band stop, low pass and high pass filters.	Analyze
CO 5	Design the signal processing algorithm using MATLAB & VLAB.	Analyze

Department OF ECE

Course Outcomes

Course Title:	Analog Communications
Programme:	B.Tech
Academic Year	2019-20
Year/Semester:	II-II
Regulation:	R19
Subject Code:	R1622044
Name of the Faculty:	Mrs D UMA MAHESWARI

COURSE OUTCOMES(COs): Upon completion of the course, students will be able to:

S.No.	Course Outcomes	Blooms Taxonomy level
CO1	Various analog modulation & demodulation schemes & their characteristics	Apply
CO 2	Analyze noise characteristics of various analog modulation techniques	Apply
CO 3	various functional blocks of radio transmitter & receiver Analyzation	Understand
CO 4	Design simple analog systems for various modulation techniques	Analyze
CO 5	different pulse modulation and demodulation techniques and signal multiplexing for various applications	Analyze

SREE VAHINI INSTITUTE OF SCIENCE AND TECHNOLOGY::TIRUVURU

Department of Electrical and Electronics Engineering

Course Outcomes

Course Title:	CONTROL SYSTEMS
Programme:	B. Tech
Academic Year	2019-20
Year/Semester:	II/II
Regulation:	R16
Subject Code:	R1622042
Name of the Faculty:	V. MURALI KRISHNA

IV. COURSE OUTCOMES(COs):

Upon completion of the course, students will be able to:

S. No.	Course Outcomes	Blooms Taxonomy level
CO 1	The students understand the basic components of control systems.	Application
CO 2	The students are capable to solve problems in time domain & frequency domain	Analysis
CO 3	The students understand the frequency response for the stability of the system.	Application
CO 4	The students understand the concept of Compensators	Analysis/ Analyzing
CO 5	The students understand the State space Analysis of different variables	Analysis

SREE VAHINI INSTITUTE OF SCIENCE & TECHNOLOGY: TIRUVURU

Department OF ECE

Course Outcomes

Course Title:	Electronic Circuits and Analysis
Programme:	B.Tech
Academic Year	2019-20
Year/Semester:	II-II
Regulation:	R19
Subject Code:	R1621041
Name of the Faculty:	Mr. T RAMESH

COURSE OUTCOMES(COs): Upon completion of the course, students will be able to:

S.No.	Course Outcomes	Blooms Taxonomy level
CO1	To understand Concept of multistage amplifier and the frequency response of MOSFET and BJT amplifiers.	Apply
CO 2	Feedback concepts and construct feedback amplifiers and oscillators. Also summarizes its performance parameters.	Understand
CO 3	Knowledge about the power amplifiers and its types and also analyze its characteristics.	Understand
CO 4	Able to design amplifier circuits using BJT s And FET's. and observe the amplitude and frequency responses of common amplifier circuits	Analyze
CO 5	Develop the skill to build, and troubleshoot Analog circuits	Analyze

Department OF ECE

Course Outcomes

Course Title:	EM WAVES AND TRANSMISSION LINES
Programme:	B.Tech
Academic Year	2019-20
Year/Semester:	II-II
Regulation:	R19
Subject Code:	R1622043
Name of the Faculty:	Mr. K Venkanna

COURSE OUTCOMES(COs): Upon completion of the course, students will be able to:

S.No.	Course Outcomes	Blooms Taxonomy level
CO1	Apply vector calculus to understand the behaviour of static electric fields in standard configurations.	Apply
CO 2	Apply vector calculus to understand the behaviour of static magnetic fields in standard configurations.	Apply
CO 3	Describe and analyse electromagnetic wave propagation in free-space	Understand
CO 4	Understand and analyse transmission lines.	Analyze
CO 5	Describe the concepts of transmission line	Analyze

SREE VAHINI INSTITUTE OF SCIENCE & TECHNOLOGY: TIRUVURU

Department OF ECE

Course Outcomes

Course Title:	Management Science
Programme:	B.TECH
Academic Year	2019-2020
Year/Semester:	II-II
Regulation:	R16
Subject Code:	
Name of the Faculty:	Dr.N.Suresh Babu

COURSE OUTCOMES (COs):

Upon completion of the course, students will be able to:

S.No.	Course Outcomes	Blooms Taxonomy level
CO1	Explain the management science approach to identification, analysis, decision, and implementation of problem solving.	Apply
CO 2	Identify, categorize and discuss management problems that can be analyzed by linear programming. Explain the importance of forecasting in organizations.	Apply
CO 3	Construct models for a variety of PERT/CPM. Describe the EOQ model and its variations or expansions.	Analyze
CO 4	illustrate the decision tree method of analysis for decision making under risk and under certainty and expected value	Apply
CO 5	Demonstrate the transportation method to solve problems manually and with the northwest corner method .Solve case problems using computer software.	Understand

SREE VAHINI INSTITUTE OF SCIENCE & TECHNOLOGY: TIRUVURU

Department OF ECE

Course Outcomes

Course Title:	PULSE AND DIGITAL CIRCUITS
Programme:	B.Tech
Academic Year	2019-20
Year/Semester:	II-II
Regulation:	R19
Subject Code:	R1622045
Name of the Faculty:	Mrs. P Dhana Lakshmi

COURSE OUTCOMES(COs): Upon completion of the course, students will be able to:

S.No.	Course Outcomes	Blooms Taxonomy level
CO1	Design linear and non linear wave shaping circuit	Apply
CO 2	Apply the fundamental concepts of wave shaping for various switching and signal generating circuits.	Apply
CO 3	Design different multivibrators and time base generators	Understand
CO 4	Utilize the non sinusoidal signals in many experimental research areas.	Analyze
CO 5	Design different logic gates using diodes and transistors.	Analyze

Department OF ECE

Course Outcomes

Course Title:	Analog Communications Lab
Programme:	B.Tech
Academic Year	2019-20
Year/Semester:	II-II
Regulation:	R19
Subject Code:	R1622047
Name of the Faculty:	Mrs D UMA MAHESWARI

COURSE OUTCOMES(COs): Upon completion of the course, students will be able to:

S.No.	Course Outcomes	Blooms Taxonomy level
CO1	Understand the basic Analog modulation & Spectrum analysis of DSBSC	Apply
CO 2	Understand the analog modulation ,mathematical description & Modulation & Demodulation	Apply
CO 3	Draw on their knowledge on sampling theorem ,pulse modulation & demodulation	Analyze
CO 4	Understand the frequency modulation and demodulation	Analyze

Department OF ECE

Course Outcomes

Course Title:	Electronic Circuit Analysis Lab
Programme:	B.Tech
Academic Year	2019-20
Year/Semester:	II-II
Regulation:	R19
Subject Code:	R1622048
Name of the Faculty:	Mr. T RAMESH

COURSE OUTCOMES(COs): Upon completion of the course, students will be able to:

S.No.	Course Outcomes	Blooms Taxonomy level
CO1	able to understand MULTISIM simulation software tool	Apply
CO 2	Design and analysis of transistor and oscillator	Apply
CO 3	Design and analysis of feedback and power amplifiers	Analyze
CO 4	Design and analysis of tuned amplifiers	Analyze

Department OF ECE

Course Outcomes

Course Title:	Digital Signal Processing
Programme:	B.Tech
Academic Year	2019-20
Year/Semester:	III-II
Regulation:	R19
Subject Code:	R1632044
Name of the Faculty:	Mr.Ch Gopala Krishna

COURSE OUTCOMES(COs): Upon completion of the course, students will be able to:

S.No.	Course Outcomes	Blooms Taxonomy level
CO1	Apply the difference equations concept in the analysis of Discrete time systems	Apply
CO 2	Use the FFT algorithm for solving the DFT of a given signal	Apply
CO 3	Design a Digital filter (FIR&IIR) from the given specifications, Realize the FIR and IIR structures from the designed digital filter	Understand
CO 4	Use the Multirate Processing concepts in various applications(eg: Design of phase shifters, Interfacing of digital systems...)	Analyze
CO 5	Apply the signal processing concepts on DSP Processor	Analyze

Department OF ECE

Course Outcomes

Course Title:	Microprocessors and microcontroller
Programme:	B.Tech
Academic Year	2019-20
Year/Semester:	III-II
Regulation:	R19
Subject Code:	R1632041
Name of the Faculty:	Mr.Ch Kutumba Rao

COURSE OUTCOMES(COs): Upon completion of the course, students will be able to:

S.No.	Course Outcomes	Blooms Taxonomy level
CO1	Understand the architecture of 8086 microprocessor and micro controller, and their operations and pin diagrams	Apply
CO 2	Demonstrate and write programming skills in ALP and 8086 and 8051	Apply
CO 3	Illustrate the working of different peripherals like 8055,8257,8237,8279,8259 which are interface with 8086 MP.	Understand
CO 4	Distinguish and analyze the interfacing of microprocessor and microcontroller with peripherals	Analyze
CO 5	Analyze and apply basic concepts of fundamentals of 8051 microcontroller and advanced microprocessors 80286,80386,80486.	Analyze
CO 6	Analyze and apply basic concepts of fundamentals of PIC microcontroller	Analyze

Department OF ECE

Course Outcomes

Course Title:	MICRO WAVE ENGINEERING
Programme:	B.Tech
Academic Year	2019-20
Year/Semester:	III-II
Regulation:	R19
Subject Code:	R1632042
Name of the Faculty:	Mrs. B Rajya Lakshmi

COURSE OUTCOMES(COs): Upon completion of the course, students will be able to:

S.No.	Course Outcomes	Blooms Taxonomy level
CO1	Design different modes in waveguide structures	Apply
CO 2	Calculate S-matrix for various waveguide components and splitting the microwave energy in a desired direction	Apply
CO 3	Distinguish between Microwave tubes and Solid State Devices, calculation of efficiency of devices.	Understand
CO 4	Measure various microwave parameters using a Microwave test bench	Analyze

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Department of Electrical and Electronics Engineering

Course Outcomes

Course Title:	POWER ELECTRONICS
Programme:	B.Tech
Academic Year	2019-20
Year/Semester:	III/II
Regulation:	R16
Subject Code:	R163204C
Name of the Faculty:	K.NageswarRao

V. COURSE OUTCOMES(COs):

Upon completion of the course, students will be able to:

S.No.	Course Outcomes	Blooms Taxonomy level
CO1	To study the characteristics of various power semiconductor devices and to design firing circuits for SCR.	Apply
CO 2	To understand the operation of single phase full-wave converters and analyse harmonics in the input current.	Analyze
CO 3	To study the operation of three phase full-wave converters.	Apply
CO 4	To understand the operation of different types of DC-DC converters.	Understand
CO 5	To understand the operation of inverters and application of PWM techniques for voltage control and harmonic mitigation.	Understand
CO 6	To analyze the operation of AC-AC regulators.	Analyze

Department OF ECE

Course Outcomes

Course Title:	VLSI DESIGN
Programme:	B.Tech
Academic Year	2019-20
Year/Semester:	III-II
Regulation:	R19
Subject Code:	R1632043
Name of the Faculty:	Mr. K Srinivasa Rao

COURSE OUTCOMES(COs): Upon completion of the course, students will be able to:

S.No.	Course Outcomes	Blooms Taxonomy level
CO1	Understand the properties of MOS active devices and simple circuits configured	Apply
CO 2	Study the characteristics of MOS Layers, Stick Diagrams CMOS/BiCMOS rules	Apply
CO 3	Study the characteristics of inverter Driving large capacitive loads Wiring Capacitances	Understand
CO 4	Knowledge of determination of stability three sets of design rules with which nMOS and CMOS designs may be fabricated	Analyze
CO 5	Develop analytical capability in analysing the scaling factors determining the characteristics and performance of MOS circuits in silicon	Analyze

Department OF ECE

Course Outcomes

Course Title:	Microprocessors and microcontroller lab
Programme:	B.Tech
Academic Year	2019-20
Year/Semester:	III-II
Regulation:	R19
Subject Code:	R1632046
Name of the Faculty:	Mr.Ch Kutumba Rao

COURSE OUTCOMES(COs): Upon completion of the course, students will be able to:

S.No.	Course Outcomes	Blooms Taxonomy level
CO1	Develop ALP for sorting, multibyte addition, subtraction, factorial of given n numbers, and Arithmetic operations using 8086microprocessor	Apply
CO 2	Make use of different peripherals (8255,8279,8253) I/O interfacing with 8086 microprocessors	Apply
CO 3	Develop assembly language programs for various applications using 8051 microcontrollers	Understand
CO 4	Demonstrate knowledge and understanding the interfacing of switches, LED, Seven Segment Display, Stepper Motor, And Traffic Light Controller With 8051.	Analyze

Department OF ECE

Course Outcomes

Course Title:	VLSI DESIGN LAB
Programme:	B.Tech
Academic Year	2019-20
Year/Semester:	III-II
Regulation:	R19
Subject Code:	R1632047
Name of the Faculty:	Mr. K Srinivasa Rao

COURSE OUTCOMES(COs): Upon completion of the course, students will be able to:

S.No.	Course Outcomes	Blooms Taxonomy level
CO1	Understand the properties and design the schematic diagrams using CMOS logic	Apply
CO 2	Study the characteristics by using Mentor Graphics Software / Equivalent Industry Standard Software of MOS Layers, Stick Diagrams CMOS/BiCMOS rules	Apply
CO 3	Study the characteristics of inverter Driving large capacitive loads Wiring Capacitances	Understand
CO 4	Knowledge of three sets of design rules with which nMOS and CMOS designs may be fabricated	Analyze
CO 5	Analytical capability in analysing the scaling factors determining the characteristics and performance of MOS circuits in silicon	Analyze

Department OF ECE

Course Outcomes

Course Title:	Cellular And Mobile Communications
Programme:	B.Tech
Academic Year	2019-20
Year/Semester:	IV-II
Regulation:	R19
Subject Code:	R1642041
Name of the Faculty:	Mr. Ch Gopala Krishna

COURSE OUTCOMES(COs): Upon completion of the course, students will be able to:

S.No.	Course Outcomes	Blooms Taxonomy level
CO1	Understand the basic cellular concepts like frequency reuse, cell splitting, cell sectoring etc., and various cellular systems, identify limitations of conventional telephone systems	Apply
CO 2	Understand the different types of interference s influencing cellular and mobile communications	Apply
CO 3	Understand the frequency management, channel assignment and various propagation effects in cellulareenvironment	Understand
CO 4	Understand the different types antennas used at cell site and mobile	Understand
CO 5	Understand the concepts of handoff and architectures of various cellular systems	Analyze

Department OF ECE

Course Outcomes

Course Title:	Electronic Measuring Instruments
Programme:	B.Tech
Academic Year	2019-20
Year/Semester:	IV-II
Regulation:	R19
Subject Code:	R1642042
Name of the Faculty:	Mrs. M Anusha

COURSE OUTCOMES(COs): Upon completion of the course, students will be able to:

S.No.	Course Outcomes	Blooms Taxonomy level
CO1	An ability to working of measuring instruments operating principles of various display and recording devices various measurement techniques. Error in measurements and their rectification transmitting techniques. Application of digital techniques in development of Instrumentation system.	Apply
CO 2	Analyse and comparing of various measuring systems based on the response to the given inputs	Apply
CO 3	Design of basic electronic instruments according the required specifications.	Understand
CO 4	Solve engineering problems using different transducers for measurement of an electrical or nonelectrical quantity and establish the drawback of instruments.	Understand
CO 5	Create effective and suitable technique to overcome limitations of the instruments and display divices in measuring systems.	Analyze

Department OF ECE

Course Outcomes

Course Title:	SATELLITE COMMUNICATIONS
Programme:	B.Tech
Academic Year	2019-20
Year/Semester:	IV-II
Regulation:	R19
Subject Code:	R1642043
Name of the Faculty:	Mr. K Venkanna

COURSE OUTCOMES(COs): Upon completion of the course, students will be able to:

S.No.	Course Outcomes	Blooms Taxonomy level
CO1	Learn the evolution, growth of communication satellite & advantages and applications of GEO, MEO &LEO satellite communication.	Apply
CO 2	Analyse orbital motion of satellite and satellite link design	Apply
CO 3	Understand digital modulation techniques.	Understand
CO 4	Learn special purpose satellite & laser satellite communication	Analyze

Department OF ECE

Course Outcomes

Course Title:	Wireless Sensor Networks
Programme:	B. Tech
Academic Year	2019-20
Year/Semester:	IV-II
Regulation:	R19
Subject Code:	R164204A
Name of the Faculty:	Mr. M Vara Prasad

COURSE OUTCOMES(COs): Upon completion of the course, students will be able to:

S.No.	Course Outcomes	Blooms Taxonomy level
CO1	Understand the basic concepts of wireless sensor networks, sensing, computing and communication tasks	Apply
CO 2	Knowledge of various standards and communication protocols adopted in wireless sensor networks	Apply
CO 3	Knowledge of the hardware, software and communication for wireless sensor network nodes	Understand
CO 4	Learn special purpose wireless and sensor networks communication for security	Understand