



Methodist College of Engineering and Technology
Department of Electronics and Communication Engineering
Course Outcomes

AY: 2021-22

III Semester

SNO	Course Code	Course Name	CO No.	Course Outcomes	Taxonomy
1	HS102EG	EFFECTIVE TECHNICAL COMMUNICATION IN ENGLISH	CO1	Handle technical communication effectively	Evaluate
			CO2	Use different types of professional correspondence	Analyze
			CO3	Use various techniques of report writing	Understand
			CO4	Acquire adequate skills of manual writing	Remember
			CO5	Enhance their skills of information transfer and presentations	Apply
			CO6	Understand the aspects of data transfer and presentations	Apply
2	HS103CM	FINANCE AND ACCOUNTING	CO1	Understand the financial and Accounting aspects of a business	Analyse
			CO2	Evaluate financial Performance of the business unit	Evaluate
			CO3	Understand about the financial system and markets	Evaluate
			CO4	Evaluate the viability of projects by using Capital budgeting Techniques.	Understand
			CO5	Analyse the overall financial functioning of an Enterprise	Evaluate
			CO6	Understand and take decision on procurement of finances.	Analyze
3	ES303EC	DIGITAL ELECTRONICS	CO1	Explain the basic concepts related to number system and their conversion.	Creating

			CO2	Analyze the Boolean logic equations and simplify using K-map and tabular method .	Analyze
			CO3	Analyze the different combinational circuits and implement them using IC's.	Understand
			CO4	Explain the operation of flip flops and converting one flip flop to another.	Apply
			CO5	Analyze the concepts of sequential circuits.	Understand
			CO6	Design the counter using different IC's.	Create
4	ES304EC	Probability Theory and Stochastic Processes	CO1	Explain definitions of Probability, Axioms, Joint Probability, Conditional Probability, Total Probability, Bayes' Theorem, Independent Events, Random Variable, Conditions of a Random Variable.	Understand
			CO2	Apply the concepts, theorems to derive probability distribution & probability density functions. Expectations, Moments & characteristic functions of Random variable	Applying
			CO3	Make use of Properties of distribution & density functions to solve Mean, Variance for - Binomial, Poisson, Uniform, Gaussian, Exponential, Rayleigh Distributions.	Applying
			CO4	Explain Multiple random variables i.e Joint density, Joint distribution, Central Limit Theorem, expected values of Multiple random variables.	Understand
			CO5	Explain concepts of Random process, and its properties. Variance, co variance, correlation & auto correlation. Power & cross power density spectrum and its properties.	Understand
			CO6	Examine different types of Noises and response to a random signal	Evaluating
5	PC401EC	ELECTRONIC DEVICES	CO1	Understand the PN Diode V-I Characteristics and its applications.	Creating
			CO2	Identify the merits and demerits of various Rectifier circuits with Calculation of Ripple	Understand

				Factor and %Efficiency.	
			CO3	Discriminate the BJT Configurations to recognize appropriate Transistor Configuration for any given application.	Analyze
			CO4	Design the the biasing circuits with good stability.	Understand
			CO5	Analyze , Compare and design of BJT Amplifiers.	Remember
			CO6	Distinguish the working principles of BJT and FET.	Remember
6	PC402EC	NETWORK THEORY	CO1	Identify different parameters for two-port networks	Understand
			CO2	Explain symmetrical and asymmetrical networks and their electrical properties	Creating
			CO3	Design concepts of different filters	Creating
			CO4	Design different Types of Attenuator and Equalizers	Remember
			CO5	Explain concepts of Network synthesis like Hurwitz polynomials, Positive real functions	Remember
			CO6	Analyse LC, RC,RL Networks by synthesis	Remember
7	PC451EC	ELECTRONIC DEVICES AND CIRCUITS LAB	CO1	Understand characteristics of Diodes	Analyze
			CO2	Plot the characteristics of BJT in different configurations	Understand
			CO3	Record the parameters of BJT and FET amplifiers.	Creating
			CO4	Understand biasing techniques of BJT.	Remember
			CO5	Design and performance evaluation of full wave rectifiers	Understand
			CO6	Use the SPICE software for simulating electronic circuits	Evaluate
8	PC452EC	ELECTRONIC	CO1	Use the basic electronic components and design	Creating

		WORKSHOP LAB		circuits	
			CO2	Verify various parameters of the circuits by applying theorems	Analyze
			CO3	Verify the truth tables of combinational and sequential circuits	Apply
			CO4	Realize combinational and sequential circuits	Evaluate
			CO5	Understand the pin configuration of ICs and verify the operation of basic gates	Evaluate
			CO6	Design and verify the combinational and logic circuits	Understand

Dept Assessment Coordinator

(S. Srinivas Kumar)

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IV Semester


S.no	Course Code	Course Name	CO No.	Course Outcomes	Taxonomy
1	ES305EC	SIGNALS AND SYSTEMS	CO1	Differentiate various types of signals and systems in continuous and discrete time (TL:2)	Understand
			CO2	Importance of frequency domain analysis and apply Fourier series for continuous time signals (TL:4)	Analyzing
			CO3	Apply the properties of Fourier transform for continuous time signals (TL:3)	Applying
			CO4	Relate Laplace transforms to solve differential equations and to determine the response of the CT- LTI Systems	Evaluating
			CO5	Apply Z-transforms for discrete time signals to solve Difference equations (TL:5)	Evaluating
			CO6	Determine Linear Convolution and Correlation of discrete time signals with graphical representation	Evaluating
2	PC403EC	ANALOG ELECTRONIC CIRCUITS	CO1	Design and Analyse low , mid and high frequency response of small signal single and multistage BJT and FET amplifiers	Creating
			CO2	Identify the type of negative feedback, Analyse and design of negative feedback amplifiers.	Applying
			CO3	Design Audio Frequency and Radio Frequency Oscillators	Creating
			CO4	Distinguish between the classes of Power Amplifiers and their design considerations	Evaluating

			CO5	Compare the performance of single and double tuned amplifiers	Understanding
			CO6	Overcome the problem of stability in RF amplifiers	Analyzing
3	PC404EC	COMPUTER ORGANISATION AND ARCHITECTURE	CO1	Perform mathematical operations on fixed and floating point digital data.	Understanding
			CO2	Illustrate the operation of a digital computer.	Analyze
			CO3	Understand I/O interfacing of a computer.	Analyze
			CO4	Interface microprocessor with memory devices.	Apply
			CO5	Understand latest trends in microprocessors.	Evaluating
			CO6	Distinguish the organisation of various part of a system memory hierarchy	Creating
4	PC405EC	ELECTROMAGNETIC THEORY AND TRANSMISSION LINES	CO1	Understand the different coordinate systems, vector calculus, coulombs law and gauss law	Understanding
			CO2	Explain about amperes law in magneto static fields and rewrite the Maxwell equations	Evaluating
			CO3	Distinguish the electromagnetic wave equations and study their characteristics propagated in different media	Understanding
			CO4	Analyze the reflection and refraction of electromagnetic waves propagated in normal and oblique incidences	Analyzing
			CO5	Describes the transmission lines with equivalent circuit and explain their characteristics with various lenghs.	Understanding
			CO6	Study the Smith Chart profile and stub matching features, and gain ability to	Remembering

				practically use the same for solving practical problems	
5	PC406EC	PULSE AND LINEAR INTEGRATED CIRCUITS	CO1	Explain Linear and Non Linear wave shaping circuits, Analyse the response of linear wave shaping circuits to the different input signals	Understanding
			CO2	Analyse and design multivibrators and sweep circuits using transistors	Creating
			CO3	Explain the op amp ideal characteristics, parameters and its applications	Applying
			CO4	Analyse DC and AC characteristics for Single/Dual input Balanced/Unbalanced output configurations using BJTs	Analyzing
			CO5	Explain 555 timer functional diagram and its applications	Applying
			CO6	Analyse the operation of the most commonly used D/A and A/D converter types	Analyzing
6	PC407EC	ELECTRONIC MEASUREMENTS AND INSTRUMENTATION	CO1	Identify various types of electronic instrument suitable for specific measurement.	Understanding
			CO2	Classify various errors present in measuring instruments.	Understanding and Analyzing
			CO3	Understand construction, working principle and types of oscilloscopes.	Understanding
			CO4	Comprehend different types of signal generators and analyzers, their construction and operation.	Understanding, evaluating
			CO5	Describe the working principle, selection criteria and applications of various transducers used in measurement systems.	Analyzing
			CO6	Understanding of electronic instrumentation and measurement in the real time world	Understanding
7	PC453EC	ANALOG ELECTRONIC CIRCUITS LAB	CO1	Calculate gain and bandwidth of BJT, FET.	Understanding
			CO2	Study Feedback amplifier circuits.	Remembering
			CO3	Study oscillator circuits.	Creating
			CO4	Demonstrate filter circuits.	Understanding
			CO5	Demonstrate power amplifier and OpAmp. Circuits	Understanding
			CO6	Design of regulator circuits	Creating
	PC454EC	PULSE AND	CO1	Design and Analyze Linear and Non Linear	Creating

8	LINEAR INTEGRATED CIRCUITS LAB		wave shaping circuits .	
		CO2	Design Multivibrators by using BJT	Creating
		CO3	Study and performance of linear and non linear applications of op-amp	Remembering
		CO4	Study and performance of various parameters of op-amp	Remembering
		CO5	Design and Analyze different filters & their frequency comparison	Creating
		CO6	Design different multivibrators and their comparison. (theoretical & practical) by using IC 555	Creating


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V Semester


S.no	Course Code	Course Name	CO No.	Course Outcomes	Taxonomy
1	PC501EC	Analog Communication	CO1	Explain and analyze the various continuous modulation systems	Understanding
			CO2	Demonstrate and contrast the different Angle modulation schemes	Analyzing
			CO3	Illustrate and compare the pulse modulation systems	Applying
			CO4	Interpret with differentiate types of transmitters and receivers used for particular application.	Understanding
			CO5	Identify the noises present in continuous wave modulation systems and analyze Signal to Noise ratio in each system.	Analyzing
			CO6	Students able to Discriminate the design skills to illustrate the different modulation systems and method to implement different communication systems.	Applying
2	PC502EC	Digital Signal Processing	CO1	Identify the importance of DSP in real time processing	Applying
			CO2	Compute DFT & apply its properties in problem solutions , also optimize the calculation using FFT algorithm	Applying
			CO3	Design, evaluate& construct FIR filters to satisfy desired frequency response by hand	Creating
			CO4	Design,evaluate& construct IIR filters on the basis of an analogue design by hand	Creating
			CO5	Compute & comprehend sampling rate conversions & their applications	Evaluating


			CO6	Understand the importance of DSP processor applications and also comprehend the architecture, addressing modes & instruction set of TMS processor	Applying
3	PC503EC	Automatic Control Systems	CO1	Students will be able understand fundamentals of control systems & able to apply the rules of block diagram and signal flow graph to obtain overall transfer function	Understanding Applying
			CO2	Students will be able to construct Routh Array/Hurwitz determinant and thus analyze system stability in time domain and time response	Applying and analyzing
			CO3	Students will be able to construct Root locus Technique and thus analyze system stability in time domain	Applying and analyzing
			CO4	Students will be able to construct Bode plots and thus analyze system stability in frequency domain	Applying and analyzing
			CO5	Students will be able to understand the digital control system and its importance	Understanding
			CO6	Students will be able to understand state space representation and hence determine stability, controllability and Observability of a system in state space domain	Determining
4	PC504EC	Antennas and wave propagation	CO1	Illustrate the basic principles of antennas and learn the antenna terminology.	Understand
			CO2	Design different types of wire antennas and make proficient in analytical skills for understanding practical antennas.	Apply
			CO3	Design different types of antennas for various frequency ranges and get updated with latest developments in the practical antennas.	Create
			CO4	Apply the principles of antennas, to design antenna arrays and measure various parameters of antennas.	Analyse
			CO5	Identify and understand the suitable modes of Radio Wave propagation used in current practice.	Evaluate
			CO6	Analyze the structure of atmosphere for the	Analyse

				wave propagation	
5	PC505EC	Microprocessor and Microcontroller	CO1	Explain the generalized architecture of microprocessors and microcontrollers. Learn about 8086 Microprocessor and 8051 Microcontroller- different types of addressing modes, instruction set and interrupts.	Understanding
			CO2	Build Interfacing diagram of memory, peripherals using 8086 Microprocessor and 8051 Microcontroller.	Applying
			CO3	Apply 8086 Microprocessor and 8051 Microcontroller instruction set for writing simple assembly language programs.	Applying
			CO4	Explain the algorithm and program for interfacing different peripherals to 8086 microprocessor and 8051 Microcontroller.	Analysing
			CO5	Write an Assembly/C language program for interfacing different peripherals by using different software tools to 8086 microprocessor and 8051 Microcontroller.	Evaluating
			CO6	Design Interfacing of real time applications like ADC, DAC, LCD and stepper motor with 8086 microprocessor and 8051 microcontroller.	Creating
6	PC551EC	Systems and Signal Processing Lab	CO1	Analyze and process signals in the discrete domain	Applying
			CO2	Perform linear and circular convolution on various types of signals	Understanding
			CO3	Analyze and Observe Magnitude and phase characteristics (Frequency response Characteristics) of digital IIR-Butterworth, Chebyshev filters.	Analyzing
			CO4	Analyze and Observe Magnitude and phase characteristics (Frequency response Characteristics) of digital FIR filter using window techniques.	Analyzing

			CO5	Design multi rate signal processing of signals through systems.	Creating
			CO6	Develop and Implement DSP algorithms in software using a computer language such as C with TMS320C6713 floating point Processor	Creating
7	PC552EC	Microprocessor and Microcontroller Lab	CO1	Understand the architecture and its components of 8086 Microprocessor & 8051 Microcontrollers and develop algorithms for simple programs.	Understanding
			CO2	Apply the instruction set of 8086 Microprocessor & 8051 Microcontrollers and develop simple programs.	Applying
			CO3	Explain the usage of Branching, string instructions and Assembler Directives of 8086 Microprocessor for String Manipulations.	Applying
			CO4	Design and Develop interfacing applications by input/output, serial communication devices using 8086 Microprocessor	Evaluating
			CO5	Design algorithms and different programs for SFRs using C cross compilers for 8051 Microcontroller	Analysing
			CO6	Design and Develop interfacing application by input/output ports, serial communication devices using C cross compilers for 8051 Microcontroller	Creating
8	PC553EC	Mini Project	CO1	Get Practical experience of software design and development, and coding practices within Industrial/R&D Environments.	Understanding
			CO2	Gain working practices within Industrial/R&D Environments	Applying
			CO3	To encourage students to work on innovative and entrepreneurial ideas.	Understanding
			CO4	Prepare reports and deliver effective presentation.	Applying
			CO5	Demonstrate effective written and oral communication skills	Analyzing

			CO6	Design, implement and test the prototype/algorithm in order to solve the conceived problem.	Creating
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VI Semester

S.No.	Course Code	Course Name	CO No.	Course Outcomes	Taxonomy
1	PC601EC	Digital Communication	CO1	Explain the concepts different types of digital modulation techniques PCM, DPCM, DM and ADM and compare their performance by SNR.	understanding
			CO2	Describe classification of channels and Source coding methods	Remembering
			CO3	Analyze the different types of Error control codes along with their encoding/decoding algorithms	Analyzing
			CO4	Analyze performance of different Digital Carrier Modulation schemes of Coherent and Non-coherent type based on Probability of error	Analyze
			CO5	Explain the base band modulation and matched filter concepts	understand
			CO6	Applying the generation of PN sequence using Spread Spectrum and characterize the Acquisition Schemes for Receivers to track the signals	Apply
2	PC602EC	Digital System Design with Verilog HDL	CO1	Describe Verilog HDL and Write a verilog HDL code for the digital circuits in gate level and dataflow modeling.	Understanding
			CO2	Write a verilog HDL code for the digital circuits in switch level and behavioral modeling	Applying
			CO3	Analyze and synthesize synchronous sequential circuits and design the sequence detector using Moore and	Analyzing

				Mealy FSM	
			CO4	Analyze the Asynchronous sequential circuits & describe the ASM chart for the digital circuits	Analyzing
			CO5	Explain SPLDS, CPLDs and Design various combinational circuits by using PLDs	Applying
			CO6	Explain FPGA and ASIC and describe ASIC / FPGA design flow	Evaluating
3	PC603EC	Data Communication and computer networking	CO1	Understand the basic network infrastructure to learn the overall function of networking systems.	Understand
			CO2	Identify different tasks of computer communications networks and protocol architectures. Analyze and compare circuit switching and packet switching concepts.	Analysis
			CO3	Apply knowledge of different techniques of error detection and correction to detect and solve error bit during data transmission and explain the MAC Protocols and IEEE standards.	Apply
			CO4	Compare various routing algorithm and select an appropriate one for a routing design and understand ATM network concepts.	Analysis
			CO5	Design a network routing for IP networks and Paraphrase the services & protocols of Transport layer.	Evaluate
			CO6	Comprehend the functionality of application layer and importance of network security	Understand
4	PC604EC	ELECTRONIC MEASUREMENTS AND INSTRUMENTATION	CO1	Identify various types of electronic instrument suitable for specific measurement.	Understanding
			CO2	Classify various errors present in measuring instruments.	Understanding and Analyzing

			CO3	Understand construction, working principle and types of oscilloscopes.	Understanding
			CO4	Comprehend different types of signal generators and analyzers, their construction and operation.	Understanding, evaluating
			CO5	Describe the working principle, selection criteria and applications of various transducers used in measurement systems.	Analyzing
			CO6	Understanding of electronic instrumentation and measurement in the real time world	Understanding
5	PE – I (PE674EC)	IOT Sensors	CO1	Explain architecture and design of IoT.	Understanding
			CO2	Describe the Different Sensors connected in IoT.	Applying
			CO3	Understand the underlying Technologies.	Understanding
			CO4	Understand the platforms in IoT.	Understanding
			CO5	Understand cloud interface to IoT	Understanding
			CO6	Understand different applications with case studies.	Applying
6	OE – I (OE601CE)	Disaster Management	CO1	Evaluate the environmental, social, cultural, economical, legal and organizational aspects influencing vulnerabilities and capacities to face disasters and to know different types of environmental hazards	Evaluating
			CO2	Examine different types of natural and man- made disasters, theoretically and practically in the processes of disaster management and relate their interconnections.	Analyzing
			CO3	Interprete endogenous and exogenous hazards and their harmful effects to the environment through case studies in India.	Understanding

			CO4	Organize strategies for mitigation in future scenarios with available risk reduction techniques.	Applying
			CO5	Demonstrate different aspects of the emergencies and disaster events into the potential and limitations of science and its role in society and people's responsibility for how it is used.	Understanding
			CO6	Understanding capacity building concepts and planning of disaster managements	Understanding
7	PC651EC	Communication lab	CO1	Understand and simulate modulation and demodulation of AM and FM	Applying
			CO2	Construct pre-emphasis and de-emphasis at the transmitter and receiver respectively	Creating
			CO3	Understand and simulate the PAM,PWM&PPM circuits	Applying
			CO4	Understand baseband transmission (i.e., PCM, DPCM, DM, and ADM) generation and detection	Analyzing
			CO5	Understand and simulate digital modulation (i.e., ASK, FSK, BPSK,) generation and detection	Analyzing
			CO6	Generation and Detection of PCM and Digital modulation Schemes (ASK, FSK, BPSK) by using MATLAB	Applying
8	PC652EC	DCCN Lab	CO1	Understand the working of various network topologies and circuit and packet switching.	Applying
			CO2	Comprehend the role of data link layers and significance of MAC protocols.	Creating
			CO3	Understand the networking protocols and the internet protocols.	Applying
			CO4	Understand the transport layer working with TCP, UDP and ATM protocols.	Analyzing
			CO5	Comprehend the functionality of application layer and the importance of network security.	Analyzing
			CO6	Understand various routing protocols and network security.	Applying

9	PC653EC	Digital System Design with Verilog Lab	CO1	Appreciate the constructs and conventions of the verilog HDL programming in gate level modeling	Applying
			CO2	Appreciate the constructs and conventions of the verilog HDL programming in data flow modeling.	Understanding
			CO3	Generalize combinational circuits in behavioral modeling and concepts of switch level modeling	Applying
			CO4	Design and analyze digital systems and finite state machines.	Analyzing
			CO5	Perform functional verification by writing appropriate test benches.	Analyzing
			CO6	Implement designs on FPGA/CPLD boards.	Applying
10	PC654EC	Summer Internship	CO1	Students can Able to select a Practical problem and find solution by using current technologies	Understanding
			CO2	Student can go through training for implementing the project	Applying
			CO3	Students can Able to design/develop a small and simple product in hardware or software.	Creating
			CO4	Students can Able to complete the task or realize a pre-specified target, with limited scope	Creating
			CO5	Students can Able to learn to find alternate viable solutions for a given problem and evaluate these alternatives with reference to pre-specified criteria	Applying
			CO6	Students can Able to implement the selected solution and document the same	Creating

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AY: 2021-22

VII Semester

S.no	Course Code	Course Title	CO No.	Course Outcome	TAXONOMY
1	PC 701 EC	EMBEDDED SYSTEM	CO1	Explain the basic concepts of embedded systems, the selection procedure of Processors, characteristics, and design process in the embedded domain.	Understanding
			CO2	Differentiate architectural features of advanced controllers, instruction sets for programming embedded system design. Apply architectural features of ARM processor for embedded products.	Applying
			CO3	Make use of serial, parallel bus protocols for developing of embedded system products. Also Apply network enabled protocols.	Applying
			CO4	Analyze testing and hardware software co- design issues pertaining to design of an Embedded System. Examine all software development tools for embedded system.	Analyzing
			CO5	Assess the goal of embedded systems in real time design applications. Know about the RTOS based embedded system design concepts. Compare Testing methods and Debugging techniques.	Evaluating
			CO6	Design and develop embedded product in real time design applications by applying steps in design process for hardware and software of embedded product.	Creating
2	PC 702 EC	VLSI DESIGN	CO1	Understand various VLSI design styles, fabrication process of MOS, able to analyze the inverter characteristics, basic electrical properties and power dissipation of MOS transistor.	Analyzing
			CO2	Use Physical design rules to be followed for MOS designs, understand drawbacks of interconnects reliability issues and the effect of scaling on MOS devices.	Understanding
			CO3	Analyze and implement various MOS subsystems at gate level and transistor level.	Analyzing
			CO4	Analyze the operation of various arithmetic circuits and their testability.	Analyzing
			CO5	Design sequential logic circuits using MOS transistors.	Applying
			CO6	Understand the small signal model and characteristics of CMOS amplifiers.	Understanding
3	PC 703 EC	MICROWAVE TECHNIQUES	CO1	Describe the propagation characteristics of Guided waves in different modes	Understanding, Analyzing
			CO2	Evaluate different characteristics for Rectangular & Circular Waveguides & Cavity Resonators.	Applying, Analyzing
			CO3	Analyze microwave circuits using scattering parameters	Applying,

			CO4	Design and analysis of microwave guides	Analyzing Analyzing, Creating
			CO5	Understand the principle, operation and characteristics of microwave tubes and oscillators	Remembering, Analyzing
			CO6	Analyze the principle, operation and characteristics of microwave solid state devices including strip lines.	Analyzing, Evaluating
4	HS 707 ME	INDUSTRIAL ADMINISTRATION AND FINANCIAL MANAGEMENT	CO1	Illustrate the types of various business organizations, organization structures, functions of management and able to choose the proper plant layout.	Applying
			CO2	Explain the concept of Work Study and apply work measurement techniques for the calculation of standard time, and the concept of performance rating factors.	Applying
			CO3	Explain various concepts of Job evaluation, performance appraisal and wage payment system and able to apply these techniques.	Applying
			CO4	Demonstrate the concepts of Quality control, process control, material control and by use of control charts could evaluate whether the quality of a product or process in a plant.	Evaluating
			CO5	Demonstrate techniques like Linear Programming, Assignment and Project management & Material Management techniques and able to apply these techniques for optimum utilization of the resources.	Applying
			CO6	Illustrate the different terminology used in Financial Management and able to apply various capital budgeting techniques and break even analysis.	Applying
5	PE 721 EC	MOBILE AND CELLULAR COMMUNICATION	CO1	Understand the concept and implementation of frequency reuse and Handoff techniques	Understanding
			CO2	Analyze interference and capacity enhancement	Analyzing
			CO3	Appreciate the factors influencing outdoor and indoor propagation systems	Evaluate
			CO4	Analyze various multiple access protocols	Analyzing
			CO5	Visualize the system architectures and implementation of GSM and CDMA	Creating
			CO6	Understand the concepts in various Mobile Technologies	Understanding
6	OE 701 ME	OE-II STARTUP ENTREPRENEURSHIP	CO1	Explain Indian Industrial Environment, Entrepreneurship and Economic growth, Small and Large Scale Industries, Types and forms of enterprises.	Understanding
			CO2	Identify the characteristics of entrepreneurs, Emergence of first generation entrepreneurs, Understand and Practice the conception and evaluation of ideas and their source and choice of technology.	Applying
			CO3	Demonstrate the principles of project formulation, analysis of market demand, Financial and profitability analysis and Technical analysis and evaluate the technical feasibility and financial viability of a project.	Evaluate
			CO4	Apply the concepts of Project Management. CPM, PERT techniques and tax assessment burden	Applying

7	OE 781 CE	OE-III ROAD SAFETY ENGINEER RING	CO5	Identify the Behavioural aspects of entrepreneurs, Leadership concepts and models, values and attitudes and motivation aspects.	Applying
			CO6	Apply Time Management principles	Applying
			CO1	Demonstrate about road accidents and its study objectives. Prepare accident investigation reports and database based on data collected.	Understanding
			CO2	Apply design principles for roadway geometries improvement with various types of traffic safety appurtenances/tools	Applying
			CO3	Explain the road safety design operations, counter measures & characteristics to manage traffic including incident management	Understanding
			CO4	Illustrate the concept of Road Safety Auditing its principles, procedures and code of good practice and checklists	Understanding
			CO5	Explain about design and working principles of road signs and traffic signals	Understanding
			CO6	Describe applications of ITS in effectively managing the traffic incidents.	Understanding
8	PC 751 EC	MICROW AVE LAB	CO1	Analyze frequency, Wave length, SWR and Impedance for Reflex klystron Oscillator by using its equation	Analyzing
			CO2	Evaluate of mode characteristics of Reflex klystron and V-I Characteristics of Gunn diode.	Evaluating
			CO3	Analyze of the characteristics of Circulator, Isolator, Directional Coupler, Tees like (Magic tee, E & H plane tees) using the Scattering parameters.	Analyzing
			CO4	To analyze the radiation pattern of antenna	Analyzing
			CO5	Generate the Radiation pattern of different antennas like Yagi-Uda and Horn Antenna and measure the gain of the antennas.	Analyzing
			CO6	Familiarize with the EM simulation software	Creating
9	PC 752 EC	ELECTR ONIC DESIGN AUTOMA TION LAB	CO1	Explain different architecture of ARM processor, its components and Concept of RTOS	Understanding
			CO2	Develop algorithms for simple programs based on RTOS using embedded C for ARM Processors	Analyzing
			CO3	Design and Develop interfacing Real Time applications using in out pins, serial communication devices for ARM processors	Creating
			CO4	Understand Layout design Rules	Understanding
			CO5	Developing the Verilog code for existing digital designs	Applying
			CO6	Design of Simple Gates using Layouts	Creating
10	PW 761 EC	PROJECT WORK-1	CO1	Decision making on interested topic and subject area in the wide spectrum of course	Analyzing
			CO2	Identify the applicability of modern software tools and technology	Analyze
			CO3	Deliver presentation based on the preparation	Creating
			CO4	Develop communication skills and stage performance	Creating
			CO5	Present the results from the work comprehensively through presentation.	Creating
			CO6	Correct him to improve presentation skills.	Evaluating

Dept Assessment Coordinator

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1	PE 824 EC	SATELLITE COMMUNI CATIONS	CO1	Describe the Geography with reference to Satellite Orbits.	Understanding
			CO2	Illustrate the Satellite Subsystems and Link Design.	Applying
			CO3	Categorize the Satellite Multiple Access Techniques and Earth Station Technology.	Understanding
			CO4	Outline the Various Applications of Satellite.	Analyzing
			CO5	Illustrate the Basic Principles of Television.	Understanding
			CO6	Compare competitive satellite services	Understanding
2	PE 832 EC	GLOBAL NAVIGATI ONAL SATELLIT E SYSTEMS	CO1	Familiarize with the GNSS fundamentals and GPS architecture.	Understanding
			CO2	Describe the different types of DOP'S	Applying
			CO3	Describe the different types of GNSS Signals and GNSS Datum.	Understanding
			CO4	Analyse the GPS errors and their modelling techniques	Analyzing
			CO5	Understanding various GPS data processing and GPS integration techniques	Understanding
			CO6	Conceptualize the augmentation systems and regional navigation satellite systems.	Understanding
3	PE 843 EC	RADAR SYSTEMS	CO1	Demonstrate and understand the factors detecting the radar using radar range equation	Understanding
			CO2	Understand the performance characteristics of radars to enhance range prediction and their losses	Understanding
			CO3	Illustrate various types of radars and their variation displays in radars	Analyzing
			CO4	Explain different types of MTI radars and Non coherent MTI radar	Analyzing
			CO5	Illustrate on radar tracking methods and differences among them.	Remembering
			CO6	Explain search radars and various antennas used in radars.	Understanding, Analyzing
4	PW 961 EC	PROJECT WORK-II	CO1	Prepare abstract for given project by identifying the requirements and prospective solution	Analyzing
			CO2	collect latest information related to the project from various sources to analyse the project	Analyzing
			CO3	design the necessary module of the selected project as per specifications	Creating
			CO4	obtain and analyse the results of the designed module or circuit	Creating

			CO5	develop a prototype of the project by distribution of tasks among the team	Creating
			CO6	prepare a good report of the project as per the guidelines and present to the panel of experts	Evaluating


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