

SRI VASAVI INSTITUTE OF ENGINEERING AND TECHNOLOGY DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

	COUSE OUTCOMES SUMMARY IV-I EEE A.Y:20	020-21
CO#	CO STATEMENT	BTL
	Radar Systems (C411)	
C411.1	Evaluate the range of the target by Considering various parameters with	
	the help of Radar Range equation	Evaluate
C411.2	Analyze the principle of FM-CW Radar and Estimate the	
0411.2	altitude of the aircraft	Analyse
C411.2	Differentiate the minimum of a sufference of MTI and Dales	
C411.5	Differentiate the principle and performance of MTT and Pulse	Analyse
	Doppler Radar	5
C411.4	Apply the essential principles of various types of tracking	Apply
	Radars.	
C411.5	Review the operation of various types of Radar receivers and	Understand
	receiving antennas,	Understand
C411.6	Describe various types of Radar Displays and Examine them	Apply
	in real time Applications	
	Digital Image Processing (C412)	
C412.1	Discriminate the different types of images and analyze the image using	Understand
011211	based on nivel values and frequency components	Chicorstand
C412.2	Implement the various image enhancement techniques on both spatial and	Apply
C412.2	finiplement the various image emilancement techniques on both spatial and	Арріу
	frequency domains based on the application and variation in the	
~ ~ ~ ~ ~ ~	performance levels	
C412.3	Interpret image restoration process in real time under blur and noisy	Apply
	environments.	
C412.4	Apply and evaluate segmentation and morphological techniques on	Analyze
	digital images.	
C412.5	Apply and evaluate various image compression techniques and	Evaluate
	categorize image segmentation techniques on different digital images for	
	specific criteria	
C412.6	Analyze the color image processing techniques	Evaluate
0412.0	Computer Networks (C413)	Evaluate
C412.1	Computer Networks (C415)	D
C413.1	Define the fundamentals and basic principles of computer	Remember
	networks	
C413.2	Describe the Fourier analysis of the Physical Layer	Analyze
C413.3	Describe the various data link layer protocol techniques regarding	Understand
	communication system	
C413.4	Describe Medium Access control Sub Layer	Understand
C413.5	Discuss various routing algorithms such as static routing and dynamic	Understand
	routing	Understand
C413.6	Describe the transport layer and application layer of OSI	Understand
	Optical Communications (C414)	
C414.1	Define the basic elements of optical fiber communication link, structure.	
	Propagation and transmission properties of	Remember
	an ontical fiber	
C414.2	Explain the different types of fibers and attenuation and dispersion losses in	
C414.2	ontical fibers	Understand
C414.2	Describe the types of fiber connectors for combining onticel fibers and	
C414.5	beschoe the types of hoer connectors for combining optical fibers and	Understand
0414.4		
C414.4	Describe the principles of optical sources, optical detectors and power	Understand
~	launching, coupling methods.	
C414.5	Analyze the characteristics of optical fiber receivers	Analyze
C414.6	Design a optical fiber communication link and estimation of performance	Create
	of optical link	Cleate
	Electronic Switching Systems (C415A)	
C4151	Evaluate the time and space parameters of a switched signal	Remember
C415.2	Establish the digital signal path in time and space between two terminals	110111001
0113.2	Establish the digital signal path in third and space, between two terminals	Apply
C415.2	Evaluate the inherent facilities within the system to test some of the	¹ appiy
0413.3	Evaluate the inherent facilities within the system to test some of the	۸ 1.
C 11 - 1	SLIC, CODEC and digital switch functions.	Apply
C415.4	Investigate the traffic capacity of the system	Analyze
C415.5	Evaluate methods of collecting traffic data	Understand
C415.6	Evaluate the method of interconnecting two separate digital switches.	
		Understand
	Embedded Systems (C416A)	
C416.1	Describe the differences between the general computing system and the	
	embedded system, also recognize the classification of embedded	
	systems	Remember
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C416.2	Discuss the I/O types and examples, Serial Communication devices, Parallel device ports by using embedded hardware.	Understand
C416.3	Develop an application using embedded software design	Create
C416.4	Design real time embedded systems using the concepts of RTOS	Create
C416.5	Illustrate the Embedded Software Development Process and tools.	
		Analyze
C416.6	Develop an embedded system implementation and testing using hardware	
	and translation tools.	Create

	and translation tools.	Create
	System Design through Verilog (C415B)	
C415.1	Describe the basic concents of Verilog HDL	Understand
C415.2	Model digital systems using Verilog HDL in Gate Level Modeling	Apply
C415.3	Model digital systems using Verilog HDL in Behavioral Level Modeling	Apply
C415.4	Model digital systems using Verilog HDL in Dataflow and Switch Level Modeling	Apply
C415.5	Analyze, design, simulate, Synthesis and implement Combinational and Sequential logic circuits using Verilog HDL	Create
C415.6	Evaluate and Create different Verilog models	Create
	Analog IC Design(C416B)	
C416.1	Apply Large Signal & Small Signal Modeling of the MOS Devices.	Apply
C416.2	Analyze & Design CMOS Sub Circuits such as current mirrors and Voltage Reference circuits.	Create
C416.3	Analyze & Design CMOS Amplifiers	Create
C416.4	Analyze & Design Two Stage OP-AMP.	Create
C416.5	Analyze characteristics of CMOS comparator circuits.	Analyze
C416.6	Analyze CMOS oscillators & PLL Circuits	Analyze