K.L.N.COLLEGE OF ENGINEERING, POTTAPALAYAM.

DEPARTMENT OF ECE

M.E. COMMUNICATION SYSTEMS - COURSE OUTCOMES (CO)

REGULATIONS – 2013

COUR	SE	COU	COURSE	COURSE OUTCOMES
SE	M	RE	NAME	
CODE		COD		
		Ε		
C111	Ι	MA71	Oppliet use	QR factorization, for finding eigen values, To find singular value decomposition,
		58	Mathematic	
			۩I I :To sol	ve the linear programming problem by graphical method, simplex method, Big M met
			Communic	
			COMI :To so	lve difrefential equations by using Runge Kutta method multistep method. Finite Diffe
			Heffede, shoo	ting element method.Orthogonal collocation method andGalerkinâ finite
			CO IV: To fi	nd marginal and conditional density functions of discrete and continuous two dimensio
			variables, to e	valuate correlation co efficient regression lines, regression curves
			CO V: To ap	ply the concept of various queueing models single server, multiserver, with finite and i
			queue capacit	y, self service queue model and machine servicing model
			· ·	
C112	Ι	CU71	Odvantred st	dent must be familiar with fundamental antenna parameters and specifications for ant
		01	Radiation	
			&y⊙t⊈ m¶The st	udents should understand the concepts of several aperture antennas and their advantag
			CO III :The	student must be familiar with the reasons for arrays antennas
			CO IV :The	students must understand various microstripantenna and typical uses for them
			CO V :The s	tudent must understand the concepts of antenna measurements
C113	Ι	CU71	COlyaDeedelo	p the ability to understand the concepts of signal space analysis coherent and nocohered
		02	Digitalrs	
			Communic	
			COH: Conce Techniques	ptually appreciate different Equalizatin techniques.
			CO III : Posse	ess knowledge on different block codes
			CO IV: Posse	ss knowledge on convolutional codes and viterbi algorithm.
			CO V:Compr	ehend the generation of OFDM signals and the processing of the signals.
C114	Ι	AP71	Advandedign	a model for different random processes
		01	Digital	-
			Signal : estim	ate spectrum using parametric and non-parametric methods
			Processing	

			CO III : design optimum filter	and predictor
			CO IV: design the Adaptive F	ilters for equalization.
			CO V : design multirate DSP	systems
C115	Ι	CU71	COPUTICAL students will be able	to understand the different optical components such as multiplexers
		03	inetwetter, needed to build a ne	etwork
			CO II : The students will be ab	le to understand broadcast and select WDM networks that are suitable
			and MANs.	
			CO III : The students will be a	ble to understand several wavelength routing
			CO IV : The Student will be al	ble to understandOTDM and various issues associated with deploying
			echnology in different types o	fnetwork
			CO V : The students will be at	le to design understand the control and management aspects of optical
			ncluding connection managen	nent, fault management and safety management
C116	Ι	CU70 01	R04! Toxe ribe the requirement Embedded	nts of various components and devices of embedded computing.
			COMITEDISCUSS the various type	es of computing platforms and its design analysis
			CO III : Discuss the various ty	pes of process control systems and the real-time operating systems
			CO IV : Explain the various h	ardware accelerators and its network connectivity
			CO V : Synthesizing of real-ti	me digital embedded architectures and its design issues
C117	Ι	CU71 11	Computer for analyzer for ation	r measuring transmission line parameters and S- parameters
			COMStetUse network analyzer t Laboratory	or testing Microstrip couplers and transmission line parameters.
			CO III : Design channel equali	zer and measure antenna radiation pattern using simulation tool.
			CO IV: Evaluate the performation	nce of CDMA systems and Digital modulation schemes.
			CO V: Design micro strip anto	ennas using simulation software.
C121	II	CU72	COVI Processoribe the various me	hods of propagation of EM signals in wireless channel and understan
		01	anous channel classification a ation	and channel models.
			Coeff. Discuss about the chan	el capacity of AWGN, flat and frequency selective fading channel an
			he transmitter and receiver div	versity.
			CO III: Discuss MIMO channe	l capacity. and understand Space time Modulation and coding.

			CO IV: Describe the various multiple access techniques and random access techniques for multiuser
			and can derive uplink and downlink channel capacity of multiuser systems.
			CO V: Explain 3G systems and 3GPP network architecture and familiar with 4G features and challer
C122	II	CU72	CONCRONDINGERSTAND the fundamentals of RF radio system design.
		02	RF System
			CO14\$1g0 understand the various components such as amplifiers, impedance matching networks that
			an RF radio system for wireless communication
			CO III: To know the basic analysis techniques such as stability, linearization techniques needed for e
			the performance of an RF radio system for Wireless applications.
			CO IV: To design RF circuits as filters oscillators and mixers
			CO V. To analyze the performance of PE singuite
			CO V. TO analyze the performance of KF circuits
C123	II	AP73	Electroneseribe the sources & victims of EMI and about EMC.
		01	netic
			Coefference in the different methods of coupling
			and Construction in the first second and the second
			ty
			CO IV: Design high speed PCB with minimum interference
			COV: Study the EMI standards and measurement techniques to make our world free from unwanted
			electromagnetic environment.
C124	II	VL70	COUST fortudy the design concept of Low noise Amplifiers (LNA)
		13	Wireless
			COmmonstudy the various types of mixess designed for wireless communication
			CO III: To study and design Phase Locked Loop (PLL) and Voltage Controlled Oscillator (VCO)
			CO IV: To understand the concept of CDMA in wireless communication
			CO V:To study the VLSI architecture for Multi-tier wireless systems.
C125	II	DS72	Code Manage fundamentals and mathematical transforms necessary for imageProce
		01	to study the image enhancement techniques Image
			CONESPINE nderstand the image segmentation and representation techniques
			CO III: To understand how imageare analyzed to extract features of interest.
			CO IV: To introduce the concepts of image registration and image fusion
			CO V: To analyze the constraints in image processing when dealing with 3D data sets
			CO v. To analyze the constraints in image processing when dealing with 5D data sets.

C126	II	NC71 01	CO Highe student will be able recall the networking concept
		01	CONTWORK student will be able develop a comprehensive undertaking of multimedia networking
			CO III: The student will be able to study the types of VPN and tunneling protocols for security
			CO IV: The student will be able understand the traffic modelling in the network
			CO V: The student will able learn about network security in many layers and networks management
C127	Π	CU72 11	donpvativeentify socially relevant issues and solve the problems System
			COMsignply knowledge to complex problems and evolve feasible solutions. Laboratory
			CO III: Able to think of creative solutions for the prototype and innovative systems.
			CO IV: Able to comprehensively record and report the measured data, write reports communicate re and do oral presentations effectively.
			CO V: Able to communicate research ideas and do oral presentations effectively
C231	III	CU73 01	Cod An anderstand the Navigation, Tracking and Safety System of GPS Satellite
			COBLE dunderstand the inertial navigation of GPS System
			CO III: I understand the Sensing and Image processing systems
			CO IV: I understand the DTH and other broadcast Systems
			CO V: I understand the Network of Systems with IPV6
C232	III	NC700	ADU tified in scalar and vector quantization theory. Also they will be able to represent the multi-
		2	in an in a section of the section of
			Cochnine and apply various algorithms for text compression
			CO III: To employ various audio and speech compression techniques for practical applications.
			CO IV: To describe Contour based compression and other image compression techniques ,Also they
			to implement the compression techniques in MATLAB
			CO V: To apply various video compression algorithms for practical applications
C233	III	NE700 7	COATIVATIN be able to learn about the current status and future of network Manageme
			CO Int will be able to study about the Macros functional model CMIP/CMIS
			CO III:I will be able to learn about the RMON & SNMP

			CO IV · I will	he able to understand the TMN model
			CO I V. I will	be able to understand the TWHV model
			CO V: I will	be able to study about the XML based network management
C234	III	CU731 1	COI oipptly r present scena (Phase I) CO II: analyz	elevant knowledge and skills to Identify challenging practical problems, solutions to c rio of Electronics and Communication Engineering Field e and discuss complex problems on the advanced level
			CO III: apply CO IV: Desig	technical knowledge and project management skills for solving the problem in and develop hardware and/or software for their project Specific problem. e to document and present one work with requirements on structure, format, and langu
C241	IV	CU741 1	COTOIRDIPITY resembles control of the control of th	elevant knowledge and skills to Identify challenging practical problems, solutions to c rio of Electronics and Communication Engineering Field e and discuss complex problems on the advanced level technical knowledge and project management skills for solving the problem m and develop hardware and/or software for their project Specific problem. e to document and present one work with requirements on structure, format, and langu