

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY: KAKINADA KAKINADA – 533 003, Andhra Pradesh, India

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

COURSE STRUCTURE & SYLLABUS M.Tech ECE Common for

- I. Digital Electronics & Communication Engineering (DECE)
- II. Digital Electronics & Communication Systems (DECS)
- III. Electronics & Communication Engineering (ECE)

Programme

(Applicable for batches admitted from 2019-2020)



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I Semester

S. No.	Course Type/Code	Course Name	Teaching Scheme			Credits
			L	T	P	
1	Core 1	Digital System Design	3	0	0	3
2	Core 2	Digital Data Communications	3	0	0	3
3	Prog. Specific Elective	a. Transform Techniques b.VLSI Technology and Design c. Radar Signal Processing	3	0	0	3
4	Prog. Specific Elective	Elective IIa. Statistical Signal Processingb. Optical Communication Technologyc. Network Security & Cryptography	3	0	0	3
5	Lab 1	System Design Using Verilog HDL Laboratory	0	0	4	2
6	Lab2	Data Communications Laboratory	0	0	4	2
7		Research Methodology and IPR	2	0	0	2
8	Aud 1	Audit Course 1	2	0	0	0
		Total Credits	16	0	8	18

II Semester

S. No.	Course Type/Co de	Name of the Subject	Teaching Scheme		Credits	
			L	T	P	
1	Core 3	Image and Video Processing	3	0	0	3
2	Core 4	Wireless Communications and Networks	3	0	0	3
3	Prog. Specific Elective Prog. Specific Elective	(Elective III) (a. CMOS Analog & Digital IC Design) (b. Advanced Computer Architecture) (c. Soft Computing Techniques) (Elective IV) (a. (DSP Processors and Architectures) (b. EMI/ EMC) (c. Object Oriented Programming)	3	0	0	3
5	Lab 1	Advanced Communications Laboratory	0	0	4	2
6	Lab2	Advanced digital Image & video processing Laboratory	0	0	4	2
7		Mini Project	0	0	4	2
8	Aud 2	Audit Course 2	2	0	0	0
Total Credits 14 0 12						18



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III Semester

S.	Course	Subject	Teaching		Credits	
No.	Type/Code		Scheme			
1)	Prog. Specific Elective	a) Detection & Estimation Theoryb) Advanced Digital Signal Processingc) Coding Theory and Applications	3	0	0	3
2	Open Elective	 a) Business Analytics b) Industrial Safety c) Operations Research d) Cost Management of Engineering Projects e) Composite Materials f) Waste to Energy 	3	0	0	3
3	Dissertation	Dissertation Phase – I	0	0	20	10
	Total			0	20	16

IV Semester

S. No.	Course Code	Subject		eachii chem	_	Credits
			L	T	P	
1	Dissertation	Dissertation Phase – II			32	16
	Total Credits				32	16

Audit course 1 & 2

- 1. English for Research Paper Writing
- 2. Disaster Management
- 3. Sanskrit for Technical Knowledge
- 4. Value Education
- 5. Constitution of India
- 6. Pedagogy Studies
- 7. Stress Management by Yoga
- 8. Personality Development through Life Enlightenment Skills.