JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

Kakinada-533003, Andhra Pradesh (India)

Program wise Curriculum Analysis of (R13)

Program Code	Program Name	No of Courses having focus on			Total Courses	Percentage
		Employability	Entrepreneurship	Skill development		
04	B.TECH-ECE	25	16	19	85	71

Coordinator

Dr. N. BALAJI, M.E., Ph.D.
Professor of ECE
Director of IQAC
JNTUK, KAKINADA- 533 003.
Andhra Pradesh

HOD

REGISTRAR
J.N.T. University Kakinada
Kakinada-533003

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

Kakinada-533003, Andhra Pradesh (India)

Course wise Curriculum Analysis(R13)

Program Code: 04 Program Name:B.Tech -ECE Year: I **Semester: I**

Course code	Course name	Employability (Yes/No)	Entrepreneurship (Yes/No)	Skill development (Yes/No)
R13EC111	English – I	yes		
R13EC112	Mathematics-I			
R13EC113	Mathematical Methods			
R13EC114	Engineering Physics			
R13EC115	Professional Ethics and Human Value		yes	
R13EC116	Engineering Drawing			
R13EC117	English - Communication Skills Lab -1			YES
R13EC118	Engineering Physics Laboratory			YES
R13EC119	Engineering Workshop& IT Workshop			YES
	Total	1	1	3

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Kakinada-533003, Andhra Pradesh (India)

Course wise Curriculum Analysis(R13)

Program Code: 04 Program Name:B.Tech - ECE Year: I **Semester: II**

Course code	Course name	Employability (Yes/No)	Entrepreneurship (Yes/No)	Skill development (Yes/No)
R13EC121	English – II	Yes		
R13EC122	Mathematics-III			
R13EC123	Engineering Chemistry			
R13EC124	Engineering Mechanics			
R13EC125	Computer Programming	Yes		
R13EC126	Network Analysis			
R13EC127	Engineering Chemistry Laboratory			YES
R13EC128	English - Communication Skills Lab -2			YES
R13EC129	C- Programming Lab			YES
	Total	2	0	3

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Course wise Curriculum Analysis(R13)

Program Code: 04 Program Name:B.Tech - ECE Year: II **Semester: I**

Course code	Course name	Employability (Yes/No)	Entrepreneurship (Yes/No)	Skill development (Yes/No)
R13EC211	Managerial Economics & Financial Analysis		Yes	
R13EC212	Elecronic Devices and circuits		Yes	
R13EC213	Data Structuers using c++	yes		
R13EC214	Environmental studies		Yes	
R13EC215	Signals and Systems			
R13EC216	Electrical technology			
R13EC217	Electronic Devices and Circuits Lab			YES
R13EC218	Networks & Electrical Technology Lab			YES
	Total	1	3	2

Course wise Curriculum Analysis(R13)

Program Code: 04 Program Name:B.Tech - ECE Year: II **Semester: II**

Course code	Course name	Employability (Yes/No)	Entrepreneurship (Yes/No)	Skill development (Yes/No)
R13EC221	Electronic Circuit Analysis		Yes	
R13EC222	Management Science		Yes	
R13EC223	Random Variables and Stochastic Process			
R13EC224	Switching Theory and Logic Design	yes		
R13EC225	Electromagnetic Waves and Transmission Lines			
R13EC226	Analog Communications	yes	Yes	
R13EC227	Electronic Circuit Analysis Lab			YES
R13EC228	Analog Communications Lab			YES
	Total	2	3	2

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Course wise Curriculum Analysis(R13)

Program Code: 04 Program Name:B.Tech - ECE Year: III **Semester: I**

Course code	Course name	Employability (Yes/No)	Entrepreneurship (Yes/No)	Skill development (Yes/No)
R13EC311	Pulse and Digital Circuits		Yes	
R13EC312	Linear I C Applications	yes		
R13EC313	Control Systems	yes		
R13EC314	Digital system design and Digital IC Applicatios	yes		
R13EC315	Antenna and Wave Propagation			
R13EC316	Pulse and Digital Circuits Lab			YES
R13EC317	Linear I C Applications Lab			YES
R13EC318	Digital System Design and Digital I C Applications Lab			YES
R13MC319	IPR & Patents		Yes	
	Total	3	2	3

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Kakinada-533003, Andhra Pradesh (India)

Course wise Curriculum Analysis(R13)

Program Code: 04 Program Name:B.Tech - ECE Year: III **Semester: II**

Course code	Course name	Employability (Yes/No)	Entrepreneurship (Yes/No)	Skill development (Yes/No)
R13EC321	Micro Processors & Micro Controllers		Yes	
R13EC322	Digital Signal Processing			
R13EC323	Digital Communications		Yes	
R13EC324	Microwave engineering	yes		
R13EC325a	Bio-Medical Instrumentation	yes		
R13EC325b	Artificial Neural Networks	yes		
R13EC325c	Digital Image Processing	yes		
R13EC325d	Principals of SIgnals,Systems and Communication			
R13EC325e	Electronic Measurment and Instrumentation	yes		
R13EC326	Micro Processors & Micro Controllers Lab			YES
R13EC327	Digital Communications Lab			YES
R13EC328	Digital Signal Processing Lab			YES
R13EC329	Seminar			YES
	Total	5	2	4

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Kakinada-533003, Andhra Pradesh (India)

Course wise Curriculum Analysis(R13)

Program Code: 04 Program Name:B.Tech - ECE Year: IV **Semester: I**

Course code	Course name	Employability (Yes/No)	Entrepreneurship (Yes/No)	Skill development (Yes/No)
R13EC411	VLSI Design		yes	
R13EC412	Computer Networks			
R13EC413	Digital Image Processing			
R13EC414	Computer Architecture and Organization	yes		
R13EC415a	Electronic Switching Systems	yes		
R13EC415b	Analog IC Design		Yes	
R13EC415c	Object Oriented programming & O S	yes		
R13EC415d	Radar Systems	yes		
R13EC415e	EMI / EMC			
R13EC416a	Optical communication			
R13EC416b	Digital IC Design		Yes	
R13EC416c	Speech Processing			YES
R13EC416d	Artificial Neural Networks &Fuzzy Logic	Yes		YES
R13EC416e	Network security & Cryptography	yes		
R13EC417	VLSI Lab			
R13EC418	Micro Wave Engineering Lab			YES
	Total	6	3	3

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Course wise Curriculum Analysis(R13)

Program Code: 04 Program Name: B.Tech ECE Year: IV **Semester: II**

Course code	Course name	Employability (Yes/No)	Entrepreneurship (Yes/No)	Skill development (Yes/No)
R13EC421	Cellular & Mobile Communications			
R13EC422	Electronic Measurements and Instrumentation	yes		
R13EC423a	TV & Satellite Communications			
R13EC423b	Mixed Signal Design		yes	
R13EC423c	Embedded Systems		yes	YES
R13EC423d	RF Circuit Design			
R13EC423e	Cloud Computing	yes		
R13EC424a	Wireless sensor networks			
R13EC424b	System on Chip Design	Yes		
R13EC424c	Low power VLSI Design	yes		
R13EC424d	Biomedical Instrumentation	yes		
R13EC424e	Advanced computer Architecture			
R13EC425	Project & Seminar			YES
	TOTAL	5	2	1