



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA
Kakinada-533003, Andhra Pradesh (India)

Program wise Curriculum Analysis of (R19)

Program Code	Program Name	No of Courses having focus on			Total Courses	Percentage
		Employability	Entrepreneurship	Skill development		
1A	B.Tech – Electronics & Communication Engineering	20	14	23	70	82%
1D	M.Tech – Computers & Communications Engineering	06	05	07	20	90%
1D / 1A	M.Tech – Instrumentation & Control Engineering	03	08	07	20	90%

NM
Coordinator

NM
HOD
15/11/2022

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



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

Kakinada-533003, Andhra Pradesh (India)

Course wise Curriculum Analysis(R19)

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)
R19BS1101	Mathematics-I			
R19BS1102	Communication English	YES		
R19BS1103	Applied Chemistry			
R19BS1104	Basic Electrical Engineering	YES		
R19BS1105	Network Analysis			
R19BS1106	English Communication Lab			YES
R19BS1107	Applied Chemistry Lab			YES
R19BS1108	Electronic Workshop			YES
R19BS1109	Essencial of Electrical & Electronics Engg. Lab			YES
R19BS1110	Environmental Science		YES	
R19AC1111	Physical Fitness Activities		YES	
Total		2	2	4



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Course wise Curriculum Analysis(R19)

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)
R19BS1201	Mathematics-II			
R19BS1202	Mathematics-III	YES		
R19BS1203	Applied Physics			
R19BS1204	Programming & Problem solving using C			
R19BS1205	Engineering Drawing			
R19BS1206	Applied Physics Lab		YES	
R19BS1207	English Communication Skills Lab-II			yes
R19BS1208	Applied Physics Virtual Laboratory			yes
R19BS1209	Programming & Problem solving using C Lab			
R19BS1210	Engineering Exploration project Design Thinking			yes
R19MC1201	Constitution of India			
	Total	1	1	3



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Program Code: 04

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Year: II

Semester: I

Course code	Course name	Employability (Yes/No)	Entrepreneurship (Yes/No)	Skill development (Yes/No)
R192101	Electronics Devices and Circuits			
R192102	Switching Theory and Logic Design			
R192103	Signals and Systems			
R192104	Object Oriented Design & Programming using Java			
R192105	Random Variables and Stochastic Process			
R192106	Computer Architecture and Organization			
R192107	Electronics Devices and Circuits - Lab			
R192108	Switching Theory and Logic Design - Lab			Yes
R192109	Object Oriented Design & Programming using Java lab			Yes
				yes
				3
		Total		



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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)
R192201	Mathematics -4			
R192202	Managerial Economics & Financial Analysis		YES	
R192203	Electronics Circuit Analysis	YES		
R192204	Control Systems	YES		
R192205	Electromagnetic Waves and Transmission Lines			
R192206	Analog Communications	YES		
R192207	Electronics Circuit Analysis - Lab			YES
R192208	Analog Communications - Lab			YES
R192209	Socially Relevant Projects			YES
R192210	Indian Traditional Knowledge/ Employability Skills - 1 and 2/PE&HV		YES	
Total		3	2	3



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Course wise Curriculum Analysis(R19)

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)
R193101	Integrated Circuits and applications	YES		
R193102	Microprocessor and Microcontrollers		YES	
R193103	Digital Communications	YES		
R193104	Antennas and Wave Propagation			
R193105a	Data structures and Algorithms	YES		
R193105b	Electronic Measurements and Instrumentation	YES		
R193105c	Tele communications and Switching Network	YES		
R193106	Integrated Circuits and applications - Lab			YES
R193107	Digital Communications Lab			YES
R193108	Microprocessor and Microcontrollers - Lab			YES
R193109	Socially Relevant Projects			YES
	Total	5	1	4



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Course wise Curriculum Analysis(R19)

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)
R193201	Internet of Things		YES	
R193202	VLSI Design		YES	
R193203	Digital Signal Processing	YES		
R193204a	Data Communications	YES		
R193204b	EMI/EMC	YES		
R193205a	Digital IC Design	YES		
R193205b	Electromagnetic Interference & Compatibility (EMI/EMC)	YES		
R193205c	Soft computing techniques and Python programming	YES		
R193206a	Analog IC Design		YES	
R193206b	Simulation & Mathematical Modeling		YES	
R193207	VLSI Lab		YES	YES
R193208	Digital Signal Processing Lab			YES
R193209	Indian Traditional Knowledge / Life Sciences/PE&HV		YES	
Total		6	4	2



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Kakinada-533003, Andhra Pradesh (India)

Course wise Curriculum Analysis(R19)

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)
R194101	Optical communication	YES		
R194102	Microwave engineering	YES		
R194103a	Data Communications & Computer networks	YES		
R194103b	Low power VLSI Design	YES		
R194103c	Digital Imaging Processing	YES		
R194104a	DSP processors and Architectures	YES		
R194104b	Radar Engineering	YES		
R194104c	Embedded Systems	YES		
R194105a	Biomedical Instrumentation	YES		
R194105b	Electronic Measurements and Instrumentation	YES		
R194106	Microwave & optical communication lab			YES
R194107	Internet of Things(IOT) Lab			YES
R194108	Project Work-Phase 1			YES
R194109	Industrial Training / Skill Development Programmes / Research Project		YES	
	Total	10	1	3



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Course wise Curriculum Analysis(R19)

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)
R194201a	Satellite Communication	YES		YES
R194201b	FPGA Design	YES		
R194201c	Speech Processing	YES		
R194202a	Cellular & Mobile Communications		YES	
R194202b	Tele Vision Engineering		YES	
R194202c	Biomedical signal processing		YES	
R194203a	VLSI		YES	
R194203b	Mobile Communications		YES	
R194204	Project Work			YES
	TOTAL	3	5	1