

Kakinada-533003, Andhra Pradesh (India)

## Course wise Curriculum Analysis(R19)

Program Code: 1A

Program Name: B. Tech-Electronics & Communication Engineering

Year: 1

Course code	Course name	Employability (Yes/No)	Entrepreneurship (Yes/No)	Skill development (Yes/No)
1101	Mathematics-I			(103/110/
1102	Communication English	yes		
1103	Applied Chemistry	V		0
1104	Basic Electrical Engineering	yes		
1105	Network Analysis			
1106	English Communication Lab			yes
1107	Applied Chemistry Lab			yes
1108	Electronic Workshop		<u> </u>	yes
1109	Essencial of Electrical & Electronics Engg. Lab			yes
1110	Environmental Science		yes	
1111	Physical Fitness Activities		yes	



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Year: 1

Course code	Course name	Employability (Yes/No)	Entrepreneurship (Yes/No)	Skill development (Yes/No)
1201	Applied Physics			
1202	Programming & Problem solving using C	yes		N/L
1203	Engineering Drawing			
1204	Mathematics -II			
1205	Mathematics -III			
1206	Constitution of India		yes	
1207	Applied Physics Lab			yes
1208	Programming & Problem solving using C Lab			yes
1209	Virtual Physics Lab			yes



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### Course wise Curriculum Analysis(R19)

Program Code: 1A

Program Name: B.Tech – Electronics & Communication Engineering

Year: 2

Course code.	Course name	Employability (Yes/No)	Entrepreneurship (Yes/No)	Skill development (Yes/No)
2101	Electronics Devices and Circuits		yes	
2102	Switching Theory and Logic Design	yes		
2103	Signals and Systems			-
2104	Object Oriented Design & Programming using Java	Yes		
2105	Random Variables and Stochastic Process			
2106	Computer Architecture and Organization	yes		
2107	Electronics Devices and Circuits - Lab			Yes
2108	Switching Theory and Logic Design - Lab			Yes
2109	Object Oriented Design & Programming using Java lab			Yes



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### **Course wise Curriculum Analysis(R19)**

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Year: 2

Course code.	Course name	Employability (Yes/No)	Entrepreneurship (Yes/No)	Skill development (Yes/No)
2201	Mathematics -4			(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
2202	Managerial Economics & Financial Analysis		yes	
2203	Electronics Circuit Analysis	yes		
2204	Control Systems	yes		
2205	Electromagnetic Waves and Transmission Lines		ii ii	
2206	Analog Communications	yes		
2207	Electronics Circuit Analysis - Lab			yes
2208	Analog Communications - Lab			yes
2209	Socially Relevant Projects			yes
2210	Indian Traditional Knowledge/ Employability Skills - 1 and 2/PE&HV	2,	yes	



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# Course wise Curriculum Analysis(R19)

Program Code: 1A

Program Name: B.Tech – Electronics & Communication Engineering

Year: 3

Course		Employability	Entrepreneurship	Skill developmen
code.	Course name	(Yes/No)	(Yes/No)	(Yes/No)
3101	Integrated Circuits and applications	yes		
3102	Microprocessor and Microcontrollers		yes	
3103	Digital Communications	yes		
3104	Antennas and Wave Propagation			
	Professional Elective (PE1)	yes		
	1. Data structures and Algorithms			
	2.Electronic Measurements and Instrumentation			
3105	3.Tele communications and Switching Network			
3106	Integrated Circuits and applications - Lab			yes
3107	Digital Communications Lab			·
3108	Microprocessor and Microcontrollers - Lab			yes
3109	Socially Relevant Projects			yes



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Program Code: 1A

Program Name: B.Tech - Electronics & Communication Engineering

Year: 3

Course code.	Course name	Employability (Yes/No)	Entrepreneurship (Yes/No)	Skill development (Yes/No)
3201	Internet of Things		yes	(132,133,
3202	VLSI Design		yes	
3203	Digital Signal Processing	yes	· ·	
	Open Elective (OE1)	yes		
3204	1.Data Communications 2. EMI/EMC			
3205	Professional Elective (PE2)  1. Digital IC Design  2. Electromagnetic Interference & Compatibility (EMI/EMC)  3. Soft computing techniques and Python programming	yes	25	
3206	Professional Elective (PE3)  1. Analog IC Design  2. Simulation & Mathematical Modeling  3. Information Theory & Coding		yes	
3207	VLSI Lab			Yes
3208	Digital Signal Processing Lab			yes
3209	Mandatory Course - Indian Traditional Knowledge / Life Sciences/PE&HV		yes	7



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# Course wise Curriculum Analysis(R19)

Program Code: 1A

Program Name: B.Tech – Electronics & Communication Engineering

Year: 4

Course code.	Course name	Employability (Yes/No)	Entrepreneurship (Yes/No)	Skill development (Yes/No)
4101	Optical communication	yes		
4102	Microwave engineering			
4103	Professional Elective (PE4)  1. Data Communications & Computer networks  2. Low power VLSI Design  3. Digital Imaging Processing	yes		_
4104	Professional Elective (PE5) 1. DSP processors and Architectures 2. Radar Engineering 3.Embedded Systems	yes		
	Open Elective(OE2)  1. Biomedical Instrumentation	yes		
4105	2. Electronic Measurements and Instrumentation			
4106	Microwave & optical communication lab			Yes
4107	Internet of Things(IOT) Lab			Yes
4108	Projet Work-Phase 1			Yes
4109	Industrial Training / Skill Development Programmes / Research Project		yes	



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## Course wise Curriculum Analysis(R19)

Program Code: 1A

Program Name: B.Tech - Electronics & Communication Engineering

Year: 4

Semester: 2

Course code.	Course name	Employability (Yes/No)	Entrepreneurship (Yes/No)	Skill development (Yes/No)
	Professional Elective (PE6)	yes		
	1. Satellite Communication			
4204	2. FPGA Design			
4201	3. Speech Processing			
	Professional Elective (PE7)		yes	
	1. Cellular & Mobile Communications	3.65	,	
4202	2. Tele Vision Engineering			
4202	3.Biomedical signal processing			
	Open Elective (OE3)		yes	
4203	ı. VLSI			
7203	2. Mobile Communications			
4204	Project Work			yes

NM

Coordinator

Chairman, Board of Studies