




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		
02	B.TECH- EEE	08	04	33	102	44


Coordinator


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


HOD
Professor & Head
Dept. of Elec. & Electronics Engg.
University College of Engg.
J.N.T. University Kakinada
KAKINADA-533 003.



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

Course wise Curriculum Analysis (R19)

Program Code: 02

Program Name: B.Tech - EEE

Year: I

Semester: I

Course code	Course name	Employability (Yes/No)	Entrepreneurship (Yes/No)	Skill development (Yes/No)
R191101	Mathematics - I			
R191102	Communicative English			
R191103	Applied Chemistry			
R191104	Fundamentals of Computers			
R191105	English communication skills Lab - I			YES
R191106	Applied Chemistry Lab			YES
R191107	IT Workshop			YES
R191108	Electrical Engineering Workshop			YES
R191109	Environmental Science			
R1911010	Physical Fitness Activities			
	Total			4



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Program Code: 02

Program Name: B.Tech - EEE

Year: I

Semester: II

Course code	Course name	Employability (Yes/No)	Entrepreneurship (Yes/No)	Skill development (Yes/No)
R191201	Mathematics - II			
R191202	Mathematics - III			
R191203	Applied Physics			
R191204	Problem Solving and Programming using C	YES		
R191205	Electrical Circuit Analysis - I			
R191206	Engineering Drawing			
R191207	English Communication Skills Lab- II			YES
R191208	Applied Physics Lab			YES
R191209	Physics Virtual Lab			YES
R191210	Problem Solving and Programming using C Lab			YES
R191211	Engineering Exploration Project - Design Thinking (15 Hrs per Sem.)			YES
R191212	Constitution of India			
	Total	1		5



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Program Code:02

Program Name:B.Tech -EEE

Year: II

Semester: I

Course code	Course name	Employability (Yes/No)	Entrepreneurship (Yes/No)	Skill development (Yes/No)
R192101	Electronic Devices and Circuits			
R192102	Thermal and Hydro Prime Movers			
R192103	Digital Electronics			
R192104	Electrical Circuit Analysis –II			
R192105	Electrical Machines-I			
R192106	Electro Magnetic Fields			
R192107	Power System-I			
R192108	Electrical Circuits Lab			YES
R192109	Thermal and Hydro Lab			YES
R192110	Essence of Indian Traditional Knowledge			
R192111	Employability Skills-I			
	Total			02



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Program Code: 02

Program Name: B.Tech -EEE

Year: II

Semester: II

Course code	Course name	Employability (Yes/No)	Entrepreneurship (Yes/No)	Skill development (Yes/No)
R192201	Signals and Systems			
R192202	Managerial Economics & Financial Analysis		YES	
R192203	Electrical Machines-II			
R192204	Control Systems			
R192205	Electrical Measurements and Instrumentation			
R192206	Electrical Machines Lab -I			YES
R192207	Electronic Devices & Circuits Lab			YES
R192208	Electrical Simulation Lab			YES
R192209	Professional Ethics and Human Values			
R192210	Socially Relevant Projects- I			YES
	Total		1	4



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Course wise Curriculum Analysis(R19)

Program Code:02

Program Name:B.Tech -EEE

Year: III

Semester: I

Course code	Course name	Employability (Yes/No)	Entrepreneurship (Yes/No)	Skill development (Yes/No)
R193101	Power Systems-II			
R193102	Power Electronics			
R193103	Linear IC Applications	YES		
R193104	Digital Signal Processing			
R193105a	Computer Organization			YES
R193105b	Data Structures			YES
R193105c	OOPS through JAVA			YES
R193105d	Operating Systems			YES
R193106	Electrical Machines –II Laboratory			
R193107	Control Systems Laboratory			YES
R193108	Electrical Measurements and Instrumentation Laboratory			YES
R193109	Socially Relevant Projects-II			
R193110	Employability Skills-II	YES		
	Total	02		06



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Course wise Curriculum Analysis(R19)

Program Code: 02

Program Name: B.Tech -EEE

Year: III

Semester: II

Course code	Course name	Employability (Yes/No)	Entrepreneurship (Yes/No)	Skill development (Yes/No)
R193201	Electric Drives			
R193202	Power System Analysis			
R193203	Microprocessors and Microcontrollers			
R193204a	Renewable Energy Sources		YES	
R193204b	Energy Auditing, Conservation and Management			
R193204c	Optimization Techniques			
R193205a	Energy Auditing Conservation and Management			
R193205b	Electrical Distribution Systems			YES
R193205c	Renewable Energy Technologies			
R193205d	Special Electric Machines			
R193206a	IoT Applications in Electrical Engineering			YES
R193206b	Data Base Management Systems			
R193206c	Data Analytics with Python	YES	YES	
R193206d	Cloud Computing	YES		
R193207	Power Electronics Laboratory			
R193208	Linear IC Applications Laboratory			YES
R193209	Life Sciences			YES
	Total	2	02	04



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Kakinada-533003, Andhra Pradesh (India)

Course wise Curriculum Analysis(R19)

Program Code:02

Program Name:B.Tech -EEE

Year: IV

Semester: I

Course code	Course name	Employability (Yes/No)	Entrepreneurship (Yes/No)	Skill development (Yes/No)
R194101	Switchgear and Protection			
R194102	Power System Operation and Control			
R194103a	HVDC Transmission			
R194103b	EHVAC Transmission			
R194103c	Flexible Alternating Current Transmission Systems			
R194103d	High Voltage Engineering			
R194104a	Utilization of Electrical Energy			
R194104b	Smart Grid Technologies			
R194104c	Power System Deregulation			
R194104d	Hybrid Electric Vehicles			
R194105a	AI Techniques and its Applications			
R194105b	Linear Control Systems			
R194105c	Measurements and Instrumentation			
R194106	Microprocessors and Microcontrollers Laboratory			YES
R194107	Power Systems and Simulation Laboratory			YES
R194108	Industrial Training /Skill Development Programmes / Research Project			YES
R194109	Project-Work Phase -I	YES		
	Total	01		03



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Program Code: 02

Program Name: B.Tech EEE

Year: IV

Semester: II

Course code	Course name	Employability (Yes/No)	Entrepreneurship (Yes/No)	Skill development (Yes/No)
R194201a	AI Applications in Electrical Engineering			YES
R194201b	VLSI Design			YES
R194201c	Cyber Security			YES
R194201d	Electrical Machine Design			
R194202a	Switch Mode Power Conversion			
R194202b	Embedded Systems			YES
R194202c	Programmable Logic Controllers & its Applications	YES		
R194202d	Communication Systems			
R194203a	Microprocessors and its Applications	YES		
R194203b	Fundamentals of utilization of Electrical Energy			
R194203c	Electrical Estimation and Costing			
R194204	Project-Work Phase -II		YES	YES
	TOTAL	2	01	5