



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		
1D34	M.Tech – AEPS	6	2	8	20	80
1D08	M.Tech – High voltage engineering	7	3	5	20	75
1D52	M.Tech – PE&D	7	2	5	20	70

NW
Coordinator

Kob
HOD

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

Sundesh
REGISTRAR

J.N.T. University Kakinada
Kakinada-533003



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Kakinada-533003, Andhra Pradesh (India)

Course wise Curriculum Analysis(R19)

Program Code: 1D08

Program Name: M.Tech - HVE

Year: 1

Semester: 1

Course code	Course name	Employability (Yes/No)	Entrepreneurship (Yes/No)	Skill development (Yes/No)
PC	Generation and Measurement of High Voltages	yes		
PC	Dielectrics and Insulation Engineering			
PE	Program Elective – I i. Artificial Intelligence Techniques ii. HVDC Transmission iii. Breakdown Phenomenon in Electrical Insulation	yes		
PE	Program Elective – II i. High Voltage Power Apparatus and Diagnostics ii. Collision Phenomena in Plasma Science iii. Advanced Electro Magnetic Fields	yes		
	Research Methodology and IPR		Yes	
	Simulation Laboratory – I			Yes
	High Voltage Laboratory			Yes
	Audit Course – I			
	Total	3	1	2



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Course wise Curriculum Analysis(R19)

Program Code: 1D08

Program Name: M.Tech - HVE

Year: 1

Semester: 2

Course code	Course name	Employability (Yes/No)	Entrepreneurship (Yes/No)	Skill development (Yes/No)
PC	High Voltage Testing Techniques	Yes		
PC	Surge Phenomenon & Insulation Coordination			
PE	Program Elective – III i. Partial Discharge in HV Equipment ii. Gas Insulated Systems and Substations iii. Pulse Power Engineering	yes		
PE	Program Elective – IV i. Flexible AC Transmission Systems ii. EHVAC Transmission iii. Smart Grid Technologies	Yes		
	Simulation Laboratory – II			Yes
	Power Systems Laboratory			Yes
	Mini Project with Seminar			
	Audit Course – II		yes	
	Total	3	1	2



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Program Code: 1D08

Program Name: M.Tech - HVE

Year: 2

Semester: 3

Course code	Course name	Employability (Yes/No)	Entrepreneurship (Yes/No)	Skill development (Yes/No)
PE	Program Elective – V	Yes		
	Open Elective		Yes	
	Dissertation Phase - I / Industrial Project (to be continued and evaluated next semester)			Yes
	Total	1	1	1



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Course wise Curriculum Analysis(R19)

Program Code: 1D08

Program Name: M.Tech - HVE

Year: 2

Semester: 4

Course code	Course name	Employability (Yes/No)	Entrepreneurship (Yes/No)	Skill development (Yes/No)
	Project/ Dissertation Phase-II (continued from III semester)			Yes

Coordinator

Chairman, Board of Studies