



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

Program wise Curriculum Analysis of (R16)

Program Code	Program Name	No of Courses having focus on			Total Courses	Percentage
		Employability	Entrepreneurship	Skill development		
03	B.TECH-ME	19	8	17	80	55

Coordinator

HOD
Mechanical Engineering Department
University College of Engineering
J.N.T. University Kakinada
KAKINADA

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



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Course wise Curriculum Analysis(R16)

Program Code: 03

Program Name: B.Tech -ME

Year: I

Semester: I

Course code	Course name	Employability (Yes/No)	Entrepreneurship (Yes/No)	Skill development (Yes/No)
R13HS1101	English – I			
R13BS1102	Mathematics - I			
R13ES1103	Applied Chemistry			
R13BS1104	Engineering Mechanics			
R13BS1105	Computer Programming	YES		
R13ES1106	Environmental Studies			
R13HS1107	Engineering Chemistry Laboratory			YES
R13BS1108	English - Communication Skills Lab – I			YES
R13ES1109	C Programming Lab			YES
	Total	1		3



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Course wise Curriculum Analysis(R16)

Program Code: 03

Program Name: B.Tech - ME

Year: I

Semester: II

Course code	Course name	Employability (Yes/No)	Entrepreneurship (Yes/No)	Skill development (Yes/No)
R13HS1201	English - I			
R13BS1202	Mathematics - I			
R13ES1203	Applied Chemistry			
R13BS1204	Engineering Mechanics			
R13BS1205	Computer Programming			
R13ES1206	Environmental Studies			
R13HS1207	Engineering Chemistry Laboratory			YES
R13BS1208	English - Communication Skills Lab - I	YES		
R13ES1209	C Programming Lab	YES		
	Total	2		1



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Program Code: 03

Program Name: B.Tech - ME

Year: II

Semester: I

Course code	Course name	Employability (Yes/No)	Entrepreneurship (Yes/No)	Skill development (Yes/No)
R13ME2101	Metallurgy & Materials Science			
R13ME2102	Mechanics of Solids			
R13ME2103	Thermodynamics			
R13ME2104	Managerial Economics & Financial Analysis		YES	
R13ME2105	Fluid Mechanics & Hydraulic Machines			
R13ME2106	Computer Aided Engineering Drawing Practice			
R13ME2107	Electrical & Electronics Engg. Lab			YES
R13ME2108	Mechanics of Solids & Metallurgy Lab			YES
	Total		1	2



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Program Code: 03

Program Name: B.Tech - ME

Year: II

Semester: II

Course code	Course name	Employability (Yes/No)	Entrepreneurship (Yes/No)	Skill development (Yes/No)
R13ME2201	Kinematics of Machinery			
R13ME2202	Thermal Engineering –I			
R13ME2203	Production Technology			
R13ME2204	Design of Machine Members –I			
R13ME2205	Machine Drawing			
R13ME2206	Industrial Engineering and Management			
R13ME2207	Fluid Mechanics & Hydraulic Machinery Lab			YES
R13ME2208	Production Technology Lab			
R13MC2209	Professional Ethics & Human Values		YES	
	Total		1	1



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Program Code: 03

Program Name: B.Tech - ME

Year: III

Semester: I

Course code	Course name	Employability (Yes/No)	Entrepreneurship (Yes/No)	Skill development (Yes/No)
R13ME3101	Dynamics of Machinery			
R13ME3102	Metal Cutting & Machine Tools			
R13ME3103	Design of Machine Members-II			
R13ME3104	Operations Research	YES		
R13ME3105	Thermal Engineering -II			
R13ME3106	Theory of Machines Laboratory			YES
R13ME3107	Machine Tools Laboratory			YES
R13ME3108	Thermal Engineering Laboratory			YES
	Total	1		3



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Course wise Curriculum Analysis(R16)

Program Code: 03

Program Name: B.Tech - ME

Year: III

Semester: II

Course code	Course name	Employability (Yes/No)	Entrepreneurship (Yes/No)	Skill development (Yes/No)
R13ME3201	Metrology			
R13ME3202	Instrumentation & Control Systems			
R13ME3203	Refrigeration & Air-conditioning			
R13ME3204	Heat Transfer			
R13ME32015A	Entrepreneurship		YES	
R13ME32015B	Data Base Management System			
R13ME32015C	Waste Water Management			
R13ME32015D	Computer Graphics		YES	
R13ME32015E	Robotics		YES	
R13ME32015F	Green Engineering Systems		YES	
R13ME3206	Heat Transfer Laboratory			YES
R13ME3207	Metrology & Instrumentation Laboratory			YES
R13ME3208	Computational Fluid Dynamics Laboratory			YES
	Total		4	3



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Program Code: 03

Program Name: B.Tech - ME

Year: IV

Semester: I

Course code	Course name	Employability (Yes/No)	Entrepreneurship (Yes/No)	Skill development (Yes/No)
R13ME4101	Mechatronics		YES	
R13ME4102	CAD/CAM	YES		
R13ME4103	Finite Element Methods			
R13ME4104	Power Plant Engineering			
R13ME4105A	Computational Fluid Dynamics	YES		
R13ME4105B	Condition Monitoring	YES		
R13ME4105C	Additive Manufacturing	YES		
R13ME4105D	Swayam / NPTEL	YES		
R13ME4106A	Design with Advanced Materials			
R13ME4106B	Design for Manufacturing and Assembly	YES		
R13ME4106C	Gas Dynamics & Jet Propulsion	YES		
R13ME4106D	Swayam / NPTEL	YES		
R13ME4107	IPR & Patents		YES	
R13ME4108	CAD/CAM Laboratory			YES
R13ME4109	Mechatronics Laboratory			YES
	Total	8	2	2



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Program Code: 03

Program Name: B.Tech -ME

Year: IV

Semester: II

Course code	Course name	Employability (Yes/No)	Entrepreneurship (Yes/No)	Skill development (Yes/No)
R13ME4201	Production Planning and Control	YES		
R13ME4202	Unconventional Machining Processes	YES		
R13ME4203	Automobile Engineering	YES		
R13ME4204A	Thermal Equipment Design	YES		
R13ME4204B	Non Destructive Evaluation	YES		
R13ME4204C	Quality and Reliability Engineering	YES		
R13ME4204D	Swayam / NPTEL	YES		
R13ME4205	Seminar			YES
R13ME4206	Project			YES
	TOTAL	7		2