




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

Program wise Curriculum Analysis of (R20)

Program Code	Program Name	No of Courses having focus on			Total Courses	Percentage
		Employability	Entrepreneurship	Skill development		
03	B.TECH-ME	8	4	27	68	57
15	M.TECH-MD	5	1	8	20	70
04	M.TECH-CAD/CAM	3	1	8	20	60


Coordinator


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


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



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

Course wise Curriculum Analysis(R19)

Program Code: 15

Program Name: M.Tech – MACHINE DESIGN

Year: I

Semester: I

Course code		Course name		Employability (Yes/No)	Entrepreneurs hip (Yes/No)	Skill developme nt (Yes/No)
MD101		Advanced Mechanics of Solids				
MD102		Mechanical Vibrations and Acoustics				
Program Elective – I MD103	MD1031	Design of Modern Vehicle Systems				
	MD 1032	Product Design				
	MD 1033	Geometric Modeling				
	MD 1034	Fracture Mechanics				
	MD 1035	Advanced Mechanisms				
Program Elective – II MD104	MD 1041	Non-Destructive Evaluation		YES		
	MD 1042	Robotics				
	MD 1043	Design for Manufacturing & Assembly				
	MD 1044	Multi Body Dynamics				
	MD 1045	Vision Systems and Image Processing				
MD105		Computational Mathematics Lab				
MD106		Design Practice Lab-I				YES
MD107		Research Methodology and IPR				YES
MD108		Soft Skills			YES	
Total				1	1	YES 3

Chairman, Board of Studies / HOD



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Course wise Curriculum Analysis(R19)

Program Code: 15

Program Name: M.Tech - MACHINE DESIGN

Year: I

Semester: II

Course code		Course name		Employability (Yes/No)	Entrepreneurship (Yes/No)	Skill development (Yes/No)
MD201		Advanced Finite Element Methods				
MD202		Advanced Machine Design				
Program Elective– III MD 203	MD 2031	Theory of Plasticity		YES		
	MD 2032	Signal Analysis and Condition Monitoring				
	MD 2033	Computational Fluid Dynamics				
	MD 2034	Composite Materials				
	MD 2035	Soft Computing				
Program Elective– IV MD 204	MD 2041	Experimental Techniques and data analysis		YES		
	MD 2042	Design with advanced Materials				
	MD 2043	Mechatronics				
	MD 2044	Tribology				
MD205		Machine Dynamics Lab				
MD206		Design Practice Lab-II				YES
MD207		Value Education				YES
MD208		Mini Project				
Total				2		3



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Course wise Curriculum Analysis(R19)

Program Code: 15

Program Name: M.Tech -MACHINE DESIGN

Year:II

Semester: I

Course code	Course name		Employability (Yes/No)	Entrepreneurship (Yes/No)	Skill development (Yes/No)
Program Elective– V MD301	MD 3011	Industrial Robotics	YES		
	MD 3012	Advanced Optimization Techniques			
	MD 3013	Additive Manufacturing			
	MD 3014	Mechanics of Composite Materials			
	MD 3015	Vehicle Dynamics			
Open Elective MD 302	MD 3021	Industrial Robotics	YES		
	MD 3022	Operations Research			
MD 303	Dissertation phase –I				YES
Total			2		1



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Kakinada-533003, Andhra Pradesh (India)

Course wise Curriculum Analysis (R19)

Program Code: 1D34

Program Name: M.Tech -MACHINE DESIGN

Year: II

Semester: II

Course code	Course name	Employability (Yes/No)	Entrepreneur ship (Yes/No)	Skill development (Yes/No)
	Dissertation Phase-II(continued from III semester)			Yes
				1


Coordinator

Chairman, Board of Studies / 