

**APPROVED SYLLABUS OF
M.TECH COURSE
CAD/CAM
(Academic Year 2009-10)**



**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY
KAKINADA**

**COURSE STRUCTURE AND SYLLABUS FOR
M. TECH. (CAD/CAM)**

Name of the Course: CAD/CAM

Course Structure and Scheme of Evaluation (Semester-wise)

Name of the Subjects	Hrs/Week		Evaluation (marks)			
	Lecturer	Practical	Internal Marks	Theory	Practical	Total
I Semester						
1. Numerical Methods for Partial Differential Equation	4	-	40	60	-	100
2. Computer Aided Design	4	-	40	60	-	100
3. Stress Analysis & Vibration	4	-	40	60	-	100
4. Finite Element Analysis	4	-	40	60	-	100
5. Design & Optimization	4	-	40	60	-	100
6. Elective – I	4	-	40	60	-	100
7. Computer Aided Design & Optimization Laboratory	-	4	40	-	60	100
II Semester						
1. Computer Aided Manufacturing	4	-	40	60	-	100
2. Flexible Manufacturing Systems	4	-	40	60	-	100
3. Industrial Robotics	4	-	40	60	-	100
4. Design of Hydraulics & Pneumatic Systems	4	-	40	60	-	100
5. Automation in Manufacturing	4	-	40	60	-	100
6. Elective – II	4	-	40	60	-	100
7. Computer Aided Machining & Robotics Laboratory	-	4	40	-	60	100
III Semester						
Seminar	-	-	-	8	-	-
IV Semester						
Project	-	-	-	24	-	Grade *

Elective I	Elective – II
1. Mechatronics	1. Intelligent Manufacturing Systems
2. Design for Manufacturing	2. Computer Aided Process Planning
3. Manufacturing Methods & Mechanics of Composites	3. Computational Fluid Dynamics

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