

Department of Mechanical Engineering

Curriculum & Syllabi 2011 Regulations for M.E. CAD / CAM

SEMESTER I

S.No	Course Code	Course Name	L	T	P	C	M
1	11CC101	Advanced Mathematics	3	1	0	4	100
2	11CC102	Computer Applications in Design	3	0	0	3	100
3	11CC103	Mechanical Vibrations	3	1	0	4	100
4	11CC104	CNC Machines and Robotics	0	0	3	2	100
5	11CC105	Modeling and Analysis of Manufacturing Systems	3	0	0	3	100
6	XXX	Elective-I	3	0	0	3	100
7	11CC107	CAM Laboratory	0	0	3	2	100
Total			15	2	6	21	700

SEMESTER II

8	11CC201	Finite Element Analysis	3	0	0	3	100
9	11CC202	Micro Electro Mechanical Systems	3	0	0	3	100
10	11CC203	Integrated Product and Processes Development	3	0	0	3	100
11	11CC204	Design for Manufacture ,Assembly and Environment	3	0	0	3	100
12	XXX	Elective II	3	0	0	3	100
13	XXX	Elective III	3	0	0	3	100
14	11CC207	CAD and CAE laboratory	0	0	3	2	100
Total			18	0	3	20	700

SEMESTER III

15	XXX	Elective IV	3	0	0	3	100
16	XXX	Elective V	3	0	0	3	100
17	XXX	Elective VI	3	0	0	3	100
18	11CC307	Project Work Phase I	0	0	12	6	200
Total			9	0	12	15	500

SEMESTER IV

19	11CC407	Project Work Phase II	0	0	24	12	400
Total			0	0	24	12	400

L: Lecture T: Tutorial P: Practical C: Credits M: Marks

Elective List							
1	11CC911	Industrial Robotics and Expert Systems	3	0	0	3	100
2	11CC912	Mechatronics System Design	3	0	0	3	100
3	11CC913	Advanced Tool Design	3	0	0	3	100
4	11CC915	Applied Materials Engineering	3	0	0	3	100
5	11CC916	Computer Aided Process Planning	3	0	0	3	100
6	11CC917	Metrology and Non Destructive Testing	3	0	0	3	100
7	11CC918	Data Communication in CAD/CAM	3	0	0	3	100
8	11CC919	Computational Fluid Dynamics	3	0	0	3	100
9	11CC920	Modeling of Dynamic System	3	0	0	3	100
10	11CC921	Design of Automotive Systems	3	0	0	3	100
11	11CC922	Design and Analysis of Thermal Systems	3	0	0	3	100
12	11CC923	Design of Plastic Parts	3	0	0	3	100
13	11CC924	Enterprise Resource Planning	3	0	0	3	100
14	11CC925	Advanced Mechanisms Design and Simulation	3	0	0	3	100
15	11CC926	Flexible Competitive Manufacturing System	3	0	0	3	100
16	11CC928	Tribology in Design	3	0	0	3	100
17	11CC929	Advanced Strength of Materials	3	0	0	3	100
18	11CC930	Design of Material Handling Equipment	3	0	0	3	100
19	11CC931	Mechanics of Composite Materials	3	0	0	3	100
20	11CC932	Design of Hydraulic and Pneumatic Systems	3	0	0	3	100
21	11CC936	Engineering Fracture Mechanics	3	0	0	3	100
22	11CC938	Combustion and Emission in engines	3	0	0	3	100
23	11CC927	Optimization Techniques in Design	3	0	0	3	100
24	11CC933	Product Data Management	3	0	0	3	100
25	11CC914	Productivity Management and Re-Engineering	3	0	0	3	100
26	11CC934	Rapid Prototyping and Tooling	3	0	0	3	100
27	11CC935	Research Methodology	3	0	0	3	100
28	11CC937	Welding Metallurgy	3	0	0	3	100