. M. Tech. CAD-CAM

Breakup of Courses

Sl. No	Category	Total number of Credits
1	University Core	7
2	Programme Core	50
3	Programme Elective	15
Minimum Qualifying Credits		**70**
Total Credits Offered		**72**

University Core

Sl. No.	Course Code	Course Title	L	T	P	C
1	ENG551/ FRE501/ GER501/ ESP501/ JAP501	Professional and Communication Skills (or) Foreign Language	0 2	0 0	4 0	2 2
2	MAT502	Advanced Numerical and Statistical Methods	3	1	0	4
3	GUC501 /GUC 502	Seminar or Mini Project	- -	- -	- -	1 1

Programme Core

Course Code	Course Title	L	T	P	C
MEE501	Finite Element Methods	2	1	0	3
MEE502	Computer Integrated Manufacturing	3	0	0	3
MEE503	Advanced Strength of Materials	2	1	0	3
MEE504	Advanced Vibration Engineering	2	1	0	3
MEE505	Advanced Materials and Processing	3	0	0	3
MEE506	Advanced Manufacturing Technology	3	0	0	3
MEE507	Computer Aided Process Planning	2	0	0	2
MEE535	Advanced Computer Aided Design	3	0	0	3
MEE536	Advanced Computer Aided Manufacturing	3	0	0	3
MEE555	Advanced Computer Aided Design & Manufacturing Lab	0	0	4	2
MEE600	Comprehensive Examination	-	-	-	2
MEE650	Project	-	-	-	20

Programme Elective

Course Code	Course Title	L	T	P	C
MEE508	Advanced Finite Element Methods	2	1	0	3
MEE509	Product Design and Life Cycle Management	3	0	0	3
MEE510	Quality Management	2	1	0	3
MEE511	Metrology and Non Destructive Testing	3	0	0	3
MEE512	Optimization Methods	2	1	0	3
MEE513	Vehicle Aerodynamics	2	1	0	3
MEE514	Computational Fluid Dynamics	3	0	0	3
MEE515	Advanced Mechanism Design	2	1	0	3
MEE516	Design and Analysis of Experiments	2	1	0	3
MEE517	Tool Engineering	3	0	0	3
MEE518	Maintenance Engineering and Management	2	1	0	3
MEE519	Ultra Precision Engineering and Metrology	3	0	0	3
MEE520	Concurrent Engineering	3	0	0	3
MEE521	Robotics and Sensors applications	3	0	0	3
MEE522	Manufacturing Information Systems	3	0	0	3
MEE523	Design of Hydraulic and Pneumatic Systems	3	0	0	3
MEE524	Design of Material Handling Equipments	3	0	0	3
MEE525	Reliability Engineering	3	0	0	3
MEE526	Mechatronics in Manufacturing Systems	3	0	0	3
MEE527	Data Communication in CAD/CAM	3	0	0	3
MEE528	Industrial Safety Management	3	0	0	3

MEE529	Manufacturing System and Simulation	3	0	0	3
MEE530	Performance Modelling and Analysis of Manufacturing Systems	3	0	0	3
MEE531	Virtual Manufacturing	3	0	0	3
MEE532	Research Methodology	3	0	0	3
MEE533	Fracture Mechanics and Fatigue	2	1	0	3
MEE534	Design for Manufacturing	2	1	0	3
MEE537	Fundamentals of Fracture Mechanics	3	0	0	3