M. Tech. Course Structure

I Year I Semester

S. No.	Code	Course Title	L	T	P	D	Credits	Common subject (Y/N)	Approving BOS
1	MM11A	Advanced Computer Aided Design	3	0	0	0	3	N	MECH
2	MM11B	Advanced Computer Aided Manufacturing	3	0	0	0	3	N	MECH
3		**Program Elective – I**	3	0	0	0	3	N	MECH
4		**Program Elective – II**	3	0	0	0	3	N	MECH
5	MM111	Advanced Computer Aided Design Lab	0	0	4	0	2	N	MECH
6	MM112	Advanced Computer Aided Manufacturing Lab	0	0	4	0	2	N	MECH
7	MM91A	Soft skills & Personality Development	3	0	0	0	0	Y	MBA
		Total	**15**	**0**	**8**	**0**	**16**		

I Year II Semester

S. No.	Code	Course Title	L	T	P	D	Credits	Common subject (Y/N)	Approving BOS
1	MM12A	Manufacturing Systems: Simulation modeling & Analysis	3	0	0	0	3	N	MECH
2	MM12B	Advanced Finite Element Methods	3	0	0	0	3	N	MECH
3		**Program Elective – III**	3	0	0	0	3	N	MECH
4		**Program Elective – IV**	3	0	0	0	3	N	MECH
5	MM121	Simulation and Precision Engineering Lab	0	0	4	0	2	N	MECH
6	MM122	Advanced Computer Aided Engineering Lab	0	0	4	0	2	N	MECH
7	MM92A	Research Methodology and IPR	2	0	0	0	2	Y	MBA
8	MM92B	Professional value and Ethics	2	0	0	0	0	Y	MBA
		Total	**16**	**0**	**8**	**0**	**18**		

		II Year I Semester							
S. No.	**Code**	**Course Title**	**L**	**T**	**P**	**D**	**Credits**	**Common subject (Y/N)**	**Approving BOS**
1		**Program Elective – V**	3	0	0	0	3	N	MECH
2		**Open Elective – I**	3	0	0	0	3	N	MECH
3	MM131	Mini Project	0	0	4	0	2	N	MECH
4	MM132	Technical seminar	0	0	2	0	1	N	MECH
5	MM133	Phase-I Dissertation	0	0	18	0	9	N	MECH
		Total	**6**	**0**	**24**	**0**	**18**		

		II Year II Semester							
S. No.	**Code**	**Course Title**	**L**	**T**	**P**	**D**	**Credits**	**Common subject (Y/N)**	**Approving BOS**
1	MM141	Phase-II Dissertation	0	0	32	0	16	N	MECH
		Total	**0**	**0**	**32**	**0**	**16**		

Note: All End Examinations (Theory and Practical) are of three-hour duration.

L – Lecture,   T – Tutorial,   P – Practical, D – Drawing, C – Credits.

Professional Elective-I

S. No.	Code	Course Title	L	T	P	D	Credits	Category	common subject (Y/N)	Approving BOS
1	MM11C	Mechanical Behaviour of Materials	3	0	0	0	3	PE	N	MECH
2	MM11D	Stress Analysis and Vibration	3	0	0	0	3	PE	N	MECH
3	MM11E	Rapid Prototyping Technologies	3	0	0	0	3	PE	N	MECH

Professional Elective-II

S. No.	Code	Course Title	L	T	P	D	Credits	Category	common subject (Y/N)	Approving BOS
1	MM11F	Automation in Manufacturing	3	0	0	0	3	PE	N	MECH
2	MM11G	Computer Aided Process Planning	3	0	0	0	3	PE	N	MECH
3	MM11H	Optimization Techniques and Applications	3	0	0	0	3	PE	N	MECH

Professional Elective-III

S. No.	Code	Course Title	L	T	P	D	Credits	Category	common subject (Y/N)	Approving BOS
1	MM12C	Intelligent Manufacturing Systems	3	0	0	0	3	PE	N	MECH
2	MM12D	Special Manufacturing Process	3	0	0	0	3	PE	N	MECH
3	MM12E	Precision Engineering	3	0	0	0	3	PE	N	MECH

Professional Elective-IV

S. No.	Code	Course Title	L	T	P	D	Credits	Category	common subject (Y/N)	Approving BOS
1	MM12F	Advanced Mechatronics	3	0	0	0	3	PE	N	MECH
2	MM12G	Design and Manufacturing of MEMS and Micro systems	3	0	0	0	3	PE	N	MECH
3	MM12H	Design for Manufacturing and Assembly	3	0	0	0	3	PE	N	MECH

M. Tech Course Structure

Professional Elective-V									
S. No.	Code	Course Title	L	T	P	D	Credits	Category	Common subject (Y/N)	Approving BOS
1	MM13A	Mechanics of Composite Materials	3	0	0	0	3	PE	N	MECH
2	MM13B	Industrial Robotics	3	0	0	0	3	PE	N	MECH
3	MM13C	Production and Operation Management	3	0	0	0	3	PE	N	MECH

M. Tech Course Structure

Open Elective-I

S. No.	Code	Course Title	L	T	P	D	Credits	Category	Common Subject (Y/N)
1	MM3OA	Disaster Management	3	0	0	0	3	OEC	CE
2	MM3OB	Precast &Prefabricated Construction	3	0	0	0	3	OEC	CE
3	MM6OA	Clean Room Technology and Maintenance.	3	0	0	0	3	OEC	ECE
4	MM6OB	Principles of Computer Communications and Networks.	3	0	0	0	3	OEC	ECE
5	MM2OA	Renewable Energy Technologies and Battery Storage	3	0	0	0	3	OEC	EEE
6	MM2OB	Solar and Energy Storage Systems	3	0	0	0	3	OEC	EEE
7	MM1OA	Industrial Safety	3	0	0	0	3	OEC	MECH
8			3	0	0	0	3	OEC	CSE
9			3	0	0	0	3	OEC	CSE