

MASTER OF TECHNOLOGY IN MECHANICAL ENGINEERING (MACHINE DESIGN)

SEMESTER-I		L	T	P/D	Total	Cr.
MTD-501	Computer-Aided Design	3	1	-	4	3.5
MTD-503	Design of Mechanisms	3	1	-	4	3.5
MTD-505	Advanced Mechanical Vibrations	3	1	-	4	3.5
-	Elective-I (Thermal)	3	1	-	4	3.5
-	Elective-II (Production)	3	1	-	4	3.5
MTD-507	Computer-Aided Design Lab	-	-	2	2	1.0
Total					18.5	

SEMESTER-II		L	T	P/D	Total	Cr.
MTD-502	Applied Numerical Methods	3	1	-	4	3.5
MTD-504	Advanced Mechanics of Solids	3	1	-	4	3.5
-	Elective-I (Thermal)	3	1	-	4	3.5
-	Elective-II (Production)	3	1	-	4	3.5
MTD-506	Advanced Mechanical Vibrations Lab	-	-	2	2	1.0
MTD-508	Seminar	-	-	2	2	1.0
Total					16.0	

SEMESTER-III		L	T	P/D	Total	Cr.
-	Elective-I (Machine Design)	3	1	-	4	3.5
-	Elective-II (Machine Design)	3	1	-	4	3.5
-	Elective-III (Machine Design)	3	1	-	4	3.5
MTD-509	Applied Numerical Methods Lab	-	-	2	2	1.0
Total					11.5	

SEMESTER-IV	
MTD-520	Dissertation

LIST OF ELECTIVES (MACHINE DESIGN)		
1.	MTD-511	Industrial Robotics
2.	MTD-512	Measurement and Control
3.	MTD-513	Experimental Stress Analysis
4.	MTD-514	Advanced Tribology
5.	MTD-515	Optimization Techniques
6.	MTD-516	Computer-Aided Engineering
7.	MTD-517	Finite Element Methods

LIST OF ELECTIVES (THERMAL)		
1.	MTT-501	Advanced Fluid Engineering
2.	MTT-502	Computational Fluid Dynamics
3.	MTT-503	Advanced Heat & Mass Transfer
4.	MTT-505	Refrigeration Engineering
5.	MTT-512	Air Conditioning
6.	MTT-517	Renewable Energy & Energy Management
7.	MTT-518	Gas Turbine & Jet Propulsion

LIST OF ELECTIVES (INDUSTRIAL & PRODUCTION)		
1.	MTI-501	Production, Planning & Control
2.	MTI-504	Mechatronics
3.	MTI-511	Material Management
4.	MTI-512	Operations Management
5.	MTI-516	Strategic Entrepreneurship
6.	MTI-517	Machine Vision
7.	MTI-518	Productivity Management
8.	MTI-519	Ergonomics

MASTER OF TECHNOLOGY IN MECHANICAL ENGINEERING (INDUSTRIAL & PRODUCTION ENGINEERING)

SEMESTER-I		L	T	P/D	Total	Cr.
MTI-501	Production, Planning & Control	3	1	-	4	3.5
MTI-503	Advanced Manufacturing Techniques	3	1	-	4	3.5
MTI-505	Computer Aided Manufacturing	3	1	-	4	3.5
-	Elective-I (Thermal)	3	1	-	4	3.5
-	Elective-II (Machine Design)	3	1	-	4	3.5
MTI-507	Advanced Manufacturing Techniques Lab	-	-	2	2	1.0
Total					18.5	

SEMESTER-II		L	T	P/D	Total	Cr.
MTI-502	Non Conventional Machining	3	1	-	4	3.5
MTI-504	Mechatronics	3	1	-	4	3.5
-	Elective-I (Thermal)	3	1	-	4	3.5
-	Elective-II (Machine Design)	3	1	-	4	3.5
MTI-506	Mechatronics Lab	-	-	2	2	1.0
MTI-508	Seminar	-	-	2	2	1.0
Total					16.0	

SEMESTER-III		L	T	P/D	Total	Cr.
-	Elective-I (I&P)	3	1	-	4	3.5
-	Elective-II (I&P)	3	1	-	4	3.5
-	Elective-III (I&P)	3	1	-	4	3.5
MTI-509	CAD/CAM Lab	-	-	2	2	1.0
Total					11.5	

SEMESTER-IV	
MTI-520	Dissertation

LIST OF ELECTIVES (INDUSTRIAL & PRODUCTION)		
1.	MTI-511	Material Management
2.	MTI-512	Operations Management
3.	MTI-513	Experimental Designs
4.	MTI-514	Thermo Fabrication
5.	MTI-515	Quality & Reliability Management
6.	MTI-516	Strategic Entrepreneurship
7.	MTI-517	Machine Vision
8.	MTI-518	Productivity Management

LIST OF ELECTIVES (THERMAL)		
1.	MTT-501	Advanced Fluid Engineering
2.	MTT-502	Computational Fluid Dynamics
3.	MTT-503	Advanced Heat & Mass Transfer
4.	MTT-505	Refrigeration Engineering
5.	MTT-512	Air Conditioning
6.	MTT-517	Renewable Energy & Energy Management
7.	MTT-518	Gas Turbine & Jet Propulsion

LIST OF ELECTIVES (MACHINE DESIGN)		
1.	MTD-501	Computer-Aided Design
2.	MTD-502	Applied Numerical Methods
3.	MTD-503	Design of Mechanisms
4.	MTD-504	Advanced Mechanics of Solids
5.	MTD-505	Advanced Mechanical Vibrations
6.	MTD-511	Industrial Robotics
7.	MTD-512	Measurement and Control
8.	MTD-517	Finite Element Methods

MASTER OF TECHNOLOGY IN MECHANICAL ENGINEERING (THERMAL)

SEMESTER-I		L	T	P/D	Total	Cr.
MTT-501	Advanced Fluid Engineering	3	1	-	4	3.5
MTT-503	Advanced Heat & Mass Transfer	3	1	-	4	3.5
MTT-505	Refrigeration Engineering	3	1	-	4	3.5
-	Elective-I (Machine Design)	3	1	-	4	3.5
-	Elective-II (Production)	3	1	-	4	3.5
MTT-507	Advanced Heat Transfer Lab	-	-	2	2	1.0
Total						18.5

SEMESTER-II		L	T	P/D	Total	Cr.
MTT-502	Computational Fluid Dynamics	3	1	-	4	3.5
MTT-504	Advanced Internal Combustion Engine	3	1	-	4	3.5
-	Elective-I (Machine Design)	3	1	-	4	3.5
-	Elective-II (Production)	3	1	-	4	3.5
MTT-506	Computational Fluid Dynamics Lab	-	-	2	2	1.0
MTT-508	Seminar	-	-	2	2	1.0
Total						16.0

SEMESTER-III		L	T	P/D	Total	Cr.
-	Elective-I (Thermal)	3	1	-	4	3.5
-	Elective-II (Thermal)	3	1	-	4	3.5
-	Elective-III (Thermal)	3	1	-	4	3.5
MTT-509	Refrigeration & Air-Conditioning Lab	-	-	2	2	1.0
Total						11.5

SEMESTER-IV	
MTT-520	Dissertation

LIST OF ELECTIVES (THERMAL)		
1.	MTT-511	Direct Energy Conversion
2.	MTT-512	Air Conditioning
3.	MTT-513	Gas Dynamics
4.	MTT-514	Cryogenics
5.	MTT-515	Nuclear Engineering
6.	MTT-516	Solar Energy
7.	MTT-517	Renewable Energy & Energy Management
8.	MTT-518	Gas Turbine and Jet Propulsion

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1.	MTD-501	Computer-Aided Design
2.	MTD-502	Applied Numerical Methods
3.	MTD-503	Design of Mechanisms
4.	MTD-504	Advanced Mechanics of Solids
5.	MTD-505	Advanced Mechanical Vibrations
6.	MTD-511	Industrial Robotics
7.	MTD-512	Measurement and Control
8.	MTD-517	Finite Element Methods

LIST OF ELECTIVES (INDUSTRIAL & PRODUCTION)		
1.	MTI-501	Production, Planning & Control
2.	MTI-504	Mechatronics
3.	MTI-511	Material Management
4.	MTI-512	Operations Management
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