
KERALA TECHNOLOGICAL UNIVERSITY

Master of Technology (Part Time Course)

Restructured Curriculum
Syllabus and Course Plan same as Regular Course

Cluster : *Trivandrum*
Branch : *Mechanical Engineering*
Stream : *Machine Design*
Year : *2016*
No. of Credits : *67*

SEMESTER 1- RESTRUCTURED

Examination Slot	Course Number	Name	L-T-P	Internal Marks	End Semester Examination		Credits
					Marks	Duration (hours)	
A	01MA6011	Special Functions, Partial Differential Equations and Tensors	3-0-0	40	60	3	3
B	01ME6101	Advanced Theory of Vibration	3-1-0	40	60	3	4
C	01ME6103	Finite Element Method	3-1-0	40	60	3	4
U	01ME6193	Machine Dynamics Lab	0-0-2	50			1
		TOTAL	9-1-2	170	180	-	12

TOTAL CONTACT HOURS : 12
TOTAL CREDITS : 12

SEMESTER 2- RESTRUCTURED

Examination Slot	Course Number	Name	L-T-P	Internal Marks	End Semester Examination		Credits
					Marks	Duration (hours)	
A	01ME6102	Advanced Theory of Mechanisms	3-1-0	40	60	3	4
B	01ME6104	Design of Pressure Vessels and Piping	3-0-0	40	60	3	3
C	01ME6106	Experimental Stress Analysis	3-0-0	40	60	3	3
V	01ME6192	Mini Project	0-0-4	100			2
		TOTAL	9-1-4	220	180	-	12

TOTAL CONTACT HOURS : 14
TOTAL CREDITS : 12

SEMESTER 3- RESTRUCTURED

Examination Slot	Course Number	Name	L-T-P	Internal Marks	End Semester Examination		Credits
					Marks	Duration (hours)	
D	01ME6105	Continuum Mechanics	3-0-0	40	60	3	3
E	01ME6107	Industrial Tribology	3-0-0	40	60	3	3
S	01ME6999	Research Methodology	0-0-2	50			2
T	01ME7191	Seminar I	0-0-2	100			2
		TOTAL	6-0-4	230	120	-	10

TOTAL CONTACT HOURS : 10
TOTAL CREDITS : 10

SEMESTER 4- RESTRUCTURED

Examination Slot	Course Number	Name	L-T-P	Internal Marks	End Semester Examination		Credit
					Marks	Duration (hours)	
D		Elective I	3-0-0	40	60	3	3
E		Elective II	3-0-0	40	60	3	3
U	01ME6194	Modelling & Analysis Lab	0-0-2	100			1
T	01ME7191	Seminar II	0-0-2	100			2
		TOTAL	6-0-4	280	120	-	9

TOTAL CONTACT HOURS : 10
TOTAL CREDITS : 9

Elective I		Elective II	
01ME6112	Design of Power Transmission Elements	01ME6122	Optimization Techniques for Engineering
01ME6114	Design & Analysis of Composite Structures	01ME6124	Acoustics and Noise Control
01ME6116	Advanced Computer Graphics	01ME6126	Advanced Finite Element Methods
01ME6118	Condition Monitoring & Maintenance Engineering	01ME6128	Robotics
01ME6132	Fracture Mechanics		

SEMESTER 5- RESTRUCTURED

Examination Slot	Course Number	Name	L-T-P	Internal Marks	End Semester Examination		Credit
					Marks	Duration (hours)	
A		Elective III	3-0-0	40	60	3	3
B		Elective IV	3-0-0	40	60	3	3
W	01ME7193	Project - (Phase 1)	0-0-12	100			6
		TOTAL	6-0-12	180	120	-	12

TOTAL CONTACT HOURS : 18
TOTAL CREDITS : 12

Elective III		Elective IV	
01ME7111	Advanced Numerical Methods	01ME7121	Theory of plates and shells
01ME7113	Advanced Non Destructive Evaluation	01ME7123	Mechanical Behaviour of Materials
01ME7115	Advanced Design Synthesis	01ME7125	Computational Methods in Design & Manufacturing
01ME7117	Mechatronics System Design	01ME7127	Advanced Vehicle Dynamics
01ME7119	Computational Plasticity	01ME7129	Control System

SEMESTER 6&7

Examination Slot	Course Number	Name	L-T-P	Internal Marks	End Semester Examination		Credit
					Marks	Duration (hours)	
W	01ME7194	Project (Phase 2)	0-0-23	70	30		12
		TOTAL	0-0-23	70	30	-	12

TOTAL CONTACT HOURS : 23
TOTAL CREDITS : 12

TOTAL NUMBER OF CREDITS: 67