

MAHARSHI DAYANAND UNIVERSITY ROHTAK

SCHEME OF STUDIES & EXAMINATIONS

B.Tech. 3RD YEAR (SEMESTER-V)

MECHANICAL & AUTOMATION ENGINEERING

Wef 2012-2013(F- Scheme)

Course No.	Course Title	Teaching Schedule				Marks for Class work	Marks for Examination		Total Marks	Duration of Exam
		L	T	P	Total		theory	Practical		
ME-301-F	Dynamics of Machine (common to ME)	3	1	-	4	50	100		150	3
MAE-301-F	Mechanical Machine Design	3	2	-	5	50	100		150	4
ME-305-F	Fluid Machines (common to ME)	3	1	-	4	50	100		150	3
MAE-303-F	Theory of Metal Cutting & Forming Process	3	1	-	4	50	100		150	3
ME-307-F	Internal Combustion Engines & Gas Turbines (common to ME)	3	1	-	4	50	100		150	3
ME-311-F	Applied Numerical Techniques & Computing (common to ME)	3	-	-	3	50	100		150	3
ME-313-F	Dynamics of Machine Lab (common to ME)	-	-	2	2	25	-	25	50	3
ME-315-F	Fluid Machines Lab (common to ME)	-	-	2	2	25	-	25	50	3
MAE-315-F	Theory of Metal Cutting & Forming Process Lab	-	-	2	2	25	-	25	50	3
ME-317-F	Internal Combustion Engines & Gas Turbines Lab (common to ME)	-	-	2	2	25	-	25	50	3
ME-321-F	Applied Numerical Techniques & Computing Lab (common to ME)	-	-	2	2	50	-	-	50	3
ME-323-F	Practical Training Viva-Voce (common to ME)	-	-	2	2	-	-	-	-	-
	TOTAL	18	6	12	36	450	600	100	1150	

Note:

- 1) Students will be allowed to use non-programmable scientific calculator. However, sharing of calculator will not be permitted in the examination.
- 2) Assessment of Practical Training-I, undergone at the end of IV semester, will be based on seminar, viva-voce, report and certificate of practical training obtained by the student from the industry. According to performance letter grades A, B, C, F are to be awarded. A student who is awarded 'F' grade is required to repeat Practical Training.

Examiner will set 9 questions in total, two questions from each section and one question covering all sections which will be Q.1. This Q.1 is compulsory and of short answers type. Each question carries equal marks (20 marks). Students have to attempt 5 questions in total at least one question from each section.

MAHARSHI DAYANAND UNIVERSITY ROHTAK

SCHEME OF STUDIES & EXAMINATIONS .Tech. 3RD YEAR (SEMESTER-VI) (F-SCHEME) MECHANICAL & AUTOMATION ENGINEERING

Course No.	Course Title	Teaching Schedule				Marks for Class work	Marks for Examination		Total Marks	Duration of Exam
		L	T	P	Total		theory	practical		
MAE-302-F	OPTIMIZATION TECHNIQUE FOR ENGINEERING SYSTEM	3	1	-	4	50	100		150	3
MAE-304-F	METROLOGY AND QUALITY ASSURANCE	3	1	-	4	50	100		150	3
MAE-306-F	COMPUTER AIDED MANUFACTURING	3	1	-	4	50	100		150	3
ME-308-F	AUTOMATIC CONTROL (Common to ME)	3	1	-	4	50	100		150	3
MAE-308-F	MECHATRONICS	3	1	-	4	50	100		150	3
MAE-310-F	AUTOMATION IN MANUFACTURING	3	1	-	4	50	100		150	3
MAE-312-F	METROLOGY AND QUALITY ASSURANCE LAB	-	-	2	2	25	-	25	50	3
MAE-314-F	CAD/CAM LAB	-	-	2	2	50	-	50	100	3
MAE-316-F	MECHATRONICS LAB	-	-	2	2	25	-	25	50	3
ME-320-F	GENERAL PROFICIENCY	-	-	2	2	50	-	-	50	3
	TOTAL	18	6	8	32		600	100	1150	

Note:

- 1 Each student has to undergo Practical training of 6 weeks during summer vacation and its evaluation shall be carried out in 7th semester
- 2 Students will be allowed to use Non-Programmable Scientific Calculator. However sharing of calculator will not be permitted in the examination

Note: Examiner will set 9 questions in total, two questions from each section and one question covering all sections which will be Q.1. This Q.1 is compulsory and of short answers type. Each question carries equal marks (20 marks). Students have to attempt 5 questions in total at least one question from each section.

MAHARSHI DAYANAND UNIVERSITY, ROHTAK

SCHEME OF STUDIES & EXAMINATIONS
B.Tech. 4th YEAR MECHANICAL & AUTOMATION ENGINEERING,
SEMESTER- VII (F-SCHEME)
W.E.F 2013-14

Course	Course Title	Teaching schedule				Marks For class work	Marks for Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
MAE-401-F	NETWORKING SYSTEM	3	1	-	4	50	100	-	150	3
MAE-403-F	COMPUTER INTEGRATED MANUFACTURING	3	1	-	4	50	100	-	150	3
MAE-405-F	ROBOTICS ENGINEERING	3	1	-	4	50	100	-	150	3
ME-403-F	REFRIGERATION AND AIR CONDITIONING (Common to ME)	3	1	-	4	50	100	-	150	3
ME-409-F	MECHANICAL VIBRATION (Common to ME)	3	1	-	4	50	100	-	150	3
-----	DEPTT ELECTIVE	3	1	-	4	50	100	-	150	3
ME-411-F	RAC LAB	3	1	-	4	50		50	100	3
MAE-411-F	ROBOTICS ENGINEERING LAB	-	-	2	2	50	-	50	100	3
ME-415-F	PT-II	-	-	2	2	-	-	-	-	-
	Total	18	6	6	30	400	600	100	1100	

Students will be allowed to use Non-Programmable scientific Calculator. However sharing of calculator will not be permitted in the examination.

Note: Examiner will set 9 questions in total, two questions from each section and one question covering all sections which will be Q.1. This Q.1 is compulsory and of short answers type. Each question carries equal marks (20 marks). Students have to attempt 5 questions in total at least one question from each section.

LIST OF DEPARTMENTAL ELECTIVES

S.NO.	SUBJECT CODE	DEPTT. ELECTIVE
1.	ME-417-F	QUALITY ENGINEERING
2.	ME 419-F	FINITE ELEMENT METHODS
3.	ME-421-F	ENERGY MANAGEMENT PRINCIPLES
4.	ME-423-F	ENGINEERING DESIGN
5.	ME-427-F	MANUFACTURING MANAGEMENT
6.	ME- 429-F	RELIABILITY ENGINEERING
7.	ME-431-F	SOLAR ENERGY ENGINEERING
8.	ME- 433-F	VALUE ENGINEERING

MAHARSHI DAYANAND UNIVERSITY, ROHTAK
SCHEME OF STUDIES & EXAMINATIONS, B.Tech. 4th YEAR YEAR
MECHANICAL & AUTOMATION ENGINEERING,
SEMESTER- VIII (F-SCHEME)

W.E.F 2013-14

Sl. No.	Course No.	Subject	Internal Marks	External Marks	Total Marks
1.	MAE- 402-F	Industrial Training/Institutional Project Work	150	150	300

Note:

The students are required to undergo Industrial Training or Institutional Project Work of duration not less than

4 months in a reputed organization or concerned institute. The students who wish to undergo industrial training, the industry chosen for undergoing the training should be at least a private limited company. The students shall submit and present the mid-term progress report at the Institute. The presentation will be attended by a committee. Alternately, the teacher may visit the Industry to get the feedback of the students.

The final viva-voce of the Industrial Training or Institutional Project Work will be conducted by an external examiner and one internal examiner appointed by the Institute. External examiner will be from the panel of examiners submitted by the concerned institute approved by the Board of Studies in Engg. & Technology. Assessment of Industrial Training or Institutional Project Work will be based on seminar, viva-voce, report and certificate of Industrial Training or Institutional Project Work obtained by the student from the industry or Institute.

The internal marks distributions for the students who have undergone Industrial Training consist of 50 marks from the industry concern and 100 marks by the committee members consisting of faculty members of concerned department of the parent institute.

The teachers engaged for Institutional Project work shall have a workload of 2 hours per group (at least 4 students) per week.