

GOVT. COLLEGE OF ENGINEERING



CURRICULUM

Master of Technology M. Tech. (Mechanical Engineering Design) (Part-Time) 2018-2019

Department of Mechanical Engineering

GOVERNMENT COLLEGE OF ENGINEERING, AURANGABAD
 (An Autonomous Institute of Government of Maharashtra)
Department of Mechanical Engineering
 Teaching and Evaluation Scheme
**Master of Technology M. Tech. (Mechanical Engineering Design)(Part -
 Time) Programme (2018-19)**

SEMESTER-I

Sr. No.	Course Code	Subject	Scheme of Teaching (Hrs/Week) and Credits				Scheme of Evaluation (Marks)					
			L	T	P	Cr	Theory			TW	PR /V V	Total
							CT	TA	ESE			
1	ME52001	Machine Stress Analysis	3	-	-	3	20	20	60	-	-	100
2	ME 52002 To ME 52004	Program Elective I	3	-	-	3	20	20	60	-	-	100
3	GE 51001	Research Methodology & IPR	2	-	-	2	20	20	60	-	-	100
4	ME 52005	Lab 1: Machine Stress Analysis	-	-	4	2	-	-	-	25	25	50
TOTAL			8	0	4	10	60	60	180	25	25	350

SEMESTER-II

Sr. No.	Course Code	Subject	Scheme of Teaching (Hrs/Week) and Credits				Scheme of Evaluation (Marks)					
			L	T	P	Cr	Theory			TW	PR/ VV	Total
							CT	TA	ESE			
1	ME 52006	Advanced Mathematical Methods	3	-	-	3	20	20	60	-	-	100
2	ME 52007 To ME 52009	Program Elective II	3	-	-	3	20	20	60	-	-	100
3	ME 52010	Lab 2: Advanced Mathematical Methods	-	-	4	2	-	-	-	25	25	50
4		Audit Course I	2	-	-	-	-	-	-			
TOTAL			8	0	4	08	40	40	120	25	25	250
Total First Year			16	0	8	18	100	100	300	50	50	600


 Approved in XIXth Academic Council, dated 27/07/2018

SEMESTER-III

Sr. No.	Course Code	Subject	Scheme of Teaching (Hrs/Week) and Credits				Scheme of Evaluation (Marks)					
			L	T	P	Cr	Theory			TW	PR/VV	Total
							CT	TA	ESE			
1	ME 62001	Design Engineering-I	3	-	-	3	20	20	60	-	-	100
2.	ME 62002 To ME 62004	Program Elective III	3	-	-	3	20	20	60	-	-	100
3.	ME 62005 To ME 62007	Program Elective IV	3	-	-	3	20	20	60	-	-	100
4.	ME 62008	Lab 3: Design Engineering-I	-	-	4	2	-	-	-	25	25	50
TOTAL			9	0	4	11	60	60	180	25	25	350

SEMESTER-IV

Sr. No.	Course Code	Subject	Scheme of Teaching (Hrs/Week) and Credits				Scheme of Evaluation (Marks)					
			L	T	P	Cr	Theory			TW	PR/VV	Total
							CT	TA	ESE			
1	ME 62009	Computer Aided Optimization	3	-	-	3	20	20	60	-	-	100
2	ME 62010 To ME 62012	Program Elective V	3	-	-	3	20	20	60	-	-	100
1	ME 62013	Lab 4: Computer Aided Optimization	0	0	4	2	-	-	-	25	25	50
2	ME 62014	Mini Project	0	0	4	2	-	-	-	50	50	100
Total			6	0	8	10	40	40	120	75	75	350
Total Second Year			15	0	12	21	100	100	300	100	100	700


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SEMESTER-V

Sr. No.	Course Code	Subject	Scheme of Teaching (Hrs/Week) and Credits				Scheme of Evaluation (Marks)					
			L	T	P	Cr	Theory			TW	PR/VV	Total
							CT	TA	ESE			
1		Open Elective*	3	0	0	3	20	20	60	-	-	100
2	ME 72001	Dissertation I			20	10	-	-	-	50	50	100
Total			3	0	20	13	20	20	60	50	50	200

SEMESTER-VI

Sr. No.	Course Code	Subject	Scheme of Teaching (Hrs/Week) and Credits				Scheme of Evaluation (Marks)					
			L	T	P	Cr	Theory			TW	PR/VV	Total
							CT	TA	ESE			
1	ME 72002	Dissertation II	-	-	32	16	-	-	-	100	150	250
Total			0	0	32	16	0	0	0	100	150	250
Total Third Year			3	0	52	29	20	20	60	150	200	450
Grand Total			34	0	72	68	220	220	660	300	350	1750

Program Elective – I

- ME 52002 Flexible Manufacturing System
- ME 52003 Advance Operations Research
- ME 52004 Modern Management System

Program Elective – II

- ME 52007 Modern Engineering Materials
- ME 52008 Engineering Experimental Techniques
- ME 52009 Management Information System and Enterprise Resource Planning

Program Elective – III

- ME 62002 Machine Tool Design
- ME 62003 Computer Aided Optimization
- ME 62004 Engineering Economics

Program Elective – IV

- ME 62005 Materials and Logistics Management
- ME 62006 Computer Integrated Manufacturing
- ME 62007 Facilities Planning and Material Handling System

Program Elective – V

- ME 62010 Production Management
- ME 62011 Reliability Engineering
- ME 62012 Sustainability in Materials and Design


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Audit Courses

SW 51001	English for Research Paper Writing
SW 51002	Disaster Management
SW 51003	Sanskrit for Technical Knowledge
SW 51004	Value Education
SW 51005	Constitution of India
SW 51006	Pedagogy Study
SW 51007	Stress Management by Yoga
SW 51008	Personality Development through Life Enlightenment Skills

Open Elective* (NPTEL/ SWAYAM/ MOOCS etc.)

1. Principals of Casting Technology
2. Design for Quality, Manufacturing and Assembly

3. Mechanics of Machining

4. Robotics

5. Manufacturing of Composites

Rules for Open Elective:

1. The students shall appear to above open elective or available at NPTEL/ SWAYAM/ MOOCS etc. course and has to successfully complete in duration of semester.
2. After submission of authentic course certificates the credits of open elective (3 credits) will be transferred.
3. Those students who are interested to appear Swayam/ MOOCS/ NPTEL etc courses as open elective not mention in Mechanical Engineering Department syllabus has to seek sanction syllabus and credit from department in advance.
4. It is compulsory to appear online exam of Swayam/ MOOCS/ NPTEL under supervision of department otherwise performance of student will not be considered.
5. Students performance of this online examination will be considered for TA, ESE, CT.

 
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