

GME - Degree in Mechanical Engineering (Manufacturing Engineering)

Group-A

Semester-I Group-A (UG)

S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	AMT-411	Engineering Mathematics	3	1	0	4	4
2	PHT-411	Applied Physics	3	1	0	4	4
3	HUT-411	English Communication & Soft Skills	3	0	0	3	3
4	EET-411	Elements of Electrical Engineering	3	1	0	4	4
5	MET-411	Elements of Mechanical Engineering	3	1	0	4	4
6	PHP-411	Applied Physics	0	0	2	2	1
7	HUP-411	English Communication & Soft Skills	0	0	2	2	1
8	EEP-411	Elements of Electrical Engineering	0	0	2	2	1
9	MEP-411	Elements of Mechanical Engineering	0	0	2	2	1
			15	4	8	27	23

Semester-II Group-A (UG)

S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	CYT-421	Applied Chemistry	3	1	0	4	4
2	HUT-422	Engineering Economics and Entrepreneurship	3	1	0	4	4
3	CST-421	Elements of Computer Programming	2	0	0	2	2
4	ECT-421	Elements of Electronics Engineering	3	1	0	4	4
5	MET-422	Workshop Technology & Practice-I	2	0	0	2	2
6	CYP-421	Applied Chemistry	0	0	2	2	1
7	CSP-421	Elements of Computer Programming	0	0	2	2	1
8	ECP-421	Elements of Electronics Engineering	0	0	2	2	1
9	MEP-423	Engineering Drawing*	0	0	4	4	2
10	WSP-422	Workshop Technology & Practice-I	0	0	4	4	2
			13	3	14	30	23

Semester-IIIA Group-A (UG:Practical Training)

	TP-501*^	Two weeks Practical Training during summer vacations				80	2(S/US)
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Semester-III Group-A (UG)

S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	AMT-511	Higher Engg Mathematics	3	1	0	4	4
2	MET-511	Engineering Mechanics	3	0	0	3	3
3	MET-512	Basic Engineering Thermodynamics	3	0	0	3	3
4	MET-513	Manufacturing Processes-I	3	0	0	3	3
5	MET-514	Fluid Mechanics	3	0	0	3	3
6	MET-515	Industrial engineering and Management	3	0	0	3	3
7	MEP-511	Engineering Mechanics Lab	0	0	2	2	1
7	MEP-512	Basic Engineering Thermodynamics lab	0	0	2	2	1
8	MEP-514	Fluid Mechanics Lab	0	0	2	2	1
9	MEP-515	Machine drawing Lab	0	0	4	4	2
		Total	18	1	10	29	24

Semester-IV Group-A (UG)

S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	MET-521	Physical Metallurgy and Heat Treatment	3	0	0	3	3
2	MET-522	Fluid Machinery	3	0	0	3	3
3	MET-523	Strength of Materials	3	1	0	4	4
4	MET-524	Manufacturing process-II	3	0	0	3	3
5	MET-525	Kinematics of Machines	3	1	0	4	4
6	MEP-521	Physical Metallurgy and Heat Treatment Lab	0	0	2	2	1
7	MEP-522	Fluid Machinery Lab	0	0	2	2	1
8	MEP-523	Strength of Materials Lab	0	0	2	2	1
9	MEP-524	Manufacturing process-II Lab	0	0	2	2	1
10	MEP-525	Kinematics of Machines Lab	0	0	2	2	1
		Total	15	2	10	27	22

Semester-V Group-A (UG)							
S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	AMT-611	Numerical Analysis	3	1	0	4	4
2	AMP-611	Numerical Analysis	0	0	2	2	1
4	MET-611	Dynamics of Machines	3	1	0	4	4
3	MET-612	Elective -I	3	0	0	3	3
5	MET-613	Heat and Mass Transfer	3	1	0	4	4
6	MET-614	Advanced strength of material	3	1	0	4	4
7	MEP-611	Dynamics of Machines Lab	0	0	2	2	1
8	MEP-613	Heat and Mass Transfer Lab	0	0	2	2	1
		Total	15	4	6	25	22
Semester-VI Group-A (UG)							
S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	**O-62*	Open Elective-I	3	0	0	3	3
2	PHT-621	Physics of Matetials	3	1	0	4	4
3	PHP-621	Physics of Matetials	0	0	2	2	1
4	MET-621	CAD/CAM	3	0	0	3	3
5	MET-622	Refrigeration & Air Conditioning	3	0	0	3	3
6	MET-623	Work Study & Ergonomics	3	0	0	3	3
7	MET-624	Mechanical Design-I	3	1	0	4	4
8	MET-625	Metal Cutting & Forming	2	0	0	2	2
9	MEP-621	CAD/CAM LaB	0	0	2	2	1
10	MEP-622	Refrigeration & Air Conditioning Lab	0	0	2	2	1
11	MEP-623	Work Study & Ergonomics Lab	0	0	2	2	1
		Total	20	2	8	30	26
Semester- VIIA (UG:Industrial Training)							
	TP-701*^	Industrial Training during summer vacations (6 weeks)				200	8(S/US)
Semester-VII Group-A (UG)							
S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	CHM-711	Environmental Studies	3	0	0	3	3
2	HUT-711	Principles of Management	3	1	0	4	4
3	**O-71*	Open Elective-II	3	0	0	3	3
4	MET-711	Metrology and Mechanical Measurements	3	0	0	3	3
5	MET-712	Industrial Automation and Mechatronics	3	0	0	3	3
6	MET-713	Mechanical Design-II	3	1	0	4	4
8	MEP-725	Project (Minor Project)	0	0	4	4	2
9	MEP-711	Metrology and Mechanical Measurements Lab	0	0	2	2	1
10	MEP-712	Industrial Automation and Mechatronics Lab	0	0	2	2	1
		Total	18	2	8	28	24
Semester-VIII Group-A (UG)							
S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	HUM-721	Human Values and Professional Ethics	2	0	0	2	2
2	**O-72*	Open Elective-III	3	0	0	3	3
3	MET-721	Automobile Engineering	3	0	0	3	3
4	MET-722	Operations Research	3	1	0	4	4
5	MET-723	Elective-II	3	0	0	3	3
7	MEP-725	Project (Major Project)	0	0	8	8	4
8	MEP-726	Seminar	0	0	4	4	2
9	MEP-721	Automobile Engineering Lab	0	0	2	2	1
		Total	14	1	14	29	22

*^ The credit will not be considered for CGPA calculation

MET-612	Elective 1
A	Advanced Manufacturing Systems
B	Tool Design

C	Quality,Reliability and maintainability
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MET 723	Elective 2
A	Sustainable Design and Manufacturing
B	Smart Manufacturing
C	Industrial Maintenance

	Open Elective
MEO-611	Concurrent engineering
MEO-612	System Dynamics and Control
MEO-613	Power Plant engineering
MEO-711	Properties and selection of engineering materials
MEO-712	Robotics
MEO-713	Non Conventional energy sources
MEO-721	Finite element methods
MEO-722	Design of Experiment
MEO-723	Welding processes and design