

EXAMINATION SCHEME

Batch 2021-25

1

Program Name: B. Tech.

Branch: Mechanical Engineering

SEMESTER I

S. No.	Subject Code	Subject Name	Maximum Marks Allotted							Credits Allotted (Subject Wise)			Total Credits	Remarks
			Theory Slot			Practical Slot			Total Marks	Period Per Week				
			End Sem. Exam	Mid Sem. Exam (Two Tests' Average)	Class Participation	End Sem. Exam	Progressive Evaluation	Internal Viva		L	T	P		
1	ECL0101	Basic Electronics	40	30	30	40	30	30	200	2	1	2	4	
2	MAL0101	Calculus for Engineers	40	30	30	40	30	30	200	2	1	2	4	
3	HUL0101	Communication Skills & Colloquium	40	30	30	40	30	30	200	3	0	2	4	
4	MEL0104	Material Science	40	30	30	40	---	--	100	3	1	0	4	
5	MEL0101	Engineering Mechanics	40	30	30	40	30	30	200	2	1	2	4	
6	MEP0101	Mechanical Workshop Practice	-	-	-	40	30	30	100	0	0	4	2	
Total marks ---1000										Total Credits			22	

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SEMESTER II

S. No.	Subject Code	Subject Name	Maximum Marks Allotted							Credits Allotted (Subject Wise)			Total Credits	Remarks	
			Theory Slot			Practical Slot				Total Marks	Period Per Week				
			End Sem. Exam	Mid Sem. Exam (Two Tests' Average)	Class Participation	End Sem. Exam	Progressive Evaluation	Internal Viva	L		T	P			
1	MAL0203	Statistics for Engineers	40	30	30	40	30	30	200	2	1	2	4		
2	EEL0201	Principles of Electrical Engineering	40	30	30	40	30	30	200	2	1	2	4		
3	ECL0201	Environmental Pollution and global issues	40	30	30	-	-	-	100	3	1	0	4		
4	CSL0201	Essentials of InformationTechnology	40	30	30	40	30	30	200	2	0	2	3		
5	MEL0202	Engineering Graphics	40	30	30	40	30	30	200	2	1	2	4		
6	MEL0240	Manufacturing Technology-I	40	30	30	40	30	30	200	2	1	2	4		
7	CSP0201	Programming logics	-	-	-	40	30	30	100	0	0	4	2		
Total marks ---1200									Total Credits			25			

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SEMESTER III

S. No.	Subject Code	Subject Name	Maximum Marks Allotted							Credits Allotted (Subject Wise)			Total Credits	Remarks
			Theory Slot			Practical Slot			Total Marks	Period Per Week				
			End Sem. Exam	Mid Sem. Exam (Two Tests' Average)	Class Participation	End Sem. Exam	Progressive Evaluation	Internal Viva		L	T	P		
1	MEL0305	Basic Thermodynamics	40	30	30	40	30	30	200	2	1	2	4	
2	MEL 0308	Measurement and Metrology	40	30	30	40	30	30	200	2	1	2	4	
3	MEL 0310	Mechanics of Solids	40	30	30	40	30	30	200	2	1	2	4	
4	MEL 0341	Manufacturing Technology –II	40	30	30	40	30	30	200	2	1	2	4	
5	MAL0308	Engineering Mathematics	40	30	30	-	-	-	100	3	1	0	4	
6	MCL0302	Universal Human Values	40	30	30	-	-	-	100	2	1	0	3	
7	MED0301	Evaluation of Industrial Training-1	-	-	-	40	30	30	100	0	0	4	2	
Total marks ---1100									Total Credits				25	

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SEMESTER IV

S. No.	Subject Code	Subject Name	Maximum Marks Allotted							Credits Allotted (Subject Wise)			Total Credits	Remarks
			Theory Slot			Practical Slot			Total Marks	Period Per Week				
			End Sem. Exam	Mid Sem. Exam (Two Tests' Average)	Class Participation	End Sem. Exam	Progressive Evaluation	Internal Viva		L	T	P		
1	MEL0407	Fluid mechanics	40	30	30	40	30	30	200	2	1	2	4	
2	MEL0411	Energy Conversion Systems	40	30	30	40	30	30	200	2	1	2	4	
3	MEL0415	Kinematics of Machines	40	30	30	-	-	-	100	2	1	0	3	
4	MEL0442	Machining processes	40	30	30	40	30	30	200	2	1	2	4	
5	MEL0409	Industrial Engineering	40	30	30	-	-	-	100	2	1	0	3	
6	MCL0403	Indian Constitution & Traditional Knowledge	40	30	30	-	-	-	100	3	0	0	3	
7	CSP0401	Object Oriented Programming Methodology (Python)	-	-	-	40	30	30	100	0	0	4	2	
Total marks --- 1000									Total Credits			23		

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SEMESTER V

S. No.	Subject Code	Subject Name	Maximum Marks Allotted							Credits Allotted (Subject Wise)			Total Credits	Remarks
			Theory Slot			Practical Slot			Total Marks	Period Per Week				
			End Sem. Exam	Mid Sem. Exam (Two Tests' Average)	Class Participation	End Sem. Exam	Progressive Evaluation	Internal Viva		L	T	P		
1	MEL0518	Dynamics of Machines	40	30	30	40	30	30	200	2	1	2	4	
2	MEL0515	Machine Design-I	40	30	30	40	30	30	200	2	1	2	4	
3	MEL0516	IC Engines	40	30	30	40	30	30	200	2	1	2	4	
4	MEL0521	Fluid Machinery	40	30	30	40	30	30	200	2	1	2	4	
5	MEL0522	Advanced Manufacturing	40	30	30	---	-----	-----	100	2	1	0	3	
6	MEL0523	Industrial Automation & Control	40	30	30	---	-----	-----	100	2	1	0	3	
7	MED0502	Evaluation of Industrial Training-2	-	-	-	40	30	30	100	0	0	4	2	
Total marks-1100										Total Credits			24	

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SEMESTER VI

S. No.	Subject Code	Subject Name	Maximum Marks Allotted							Credits Allotted (Subject Wise)			Total Credits	Remarks
			Theory Slot			Practical Slot			Total Marks	Period Per Week				
			End Sem. Exam	Mid Sem. Exam (Two Tests' Average)	Class Participation	End Sem. Exam	Progressive Evaluation	Internal Viva		L	T	P		
1	MEL0617	Machine Design-II	40	30	30	40	30	30	200	2	1	2	4	
2	MEL0619	Heat & Mass Transfer	40	30	30	40	30	30	200	2	1	2	4	
3	MEL0620	Power Plant Engineering	40	30	30	-	-	-	100	2	1	0	3	
4	MEL0626	Operations Research	40	30	30	-	-	-	100	2	1	0	3	
5	MEL0622	Computer Aided Design	40	30	30	40	30	30	200	2	1	2	4	
6	Listed	PE- 1	40	30	30	-	-	-	100	3	1	0	4	
7	MED0603	Minor Project	-	-	-	40	30	30	100	0	0	4	2	
Total marks=1000										Total Credits			24	

Program Elective- 1

MEE0601- Additive Manufacturing

MEE0602-Elements of Solar Energy

MEE0603-Mechatronics

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SEMESTER VII

S. No.	Subject Code	Subject Name	Maximum Marks Allotted							Credits Allotted (Subject Wise)			Total Credits	Remarks	
			Theory Slot			Practical Slot				Total Marks	Period Per Week				
			End Sem. Exam	Mid Sem. Exam (Two Tests' Average)	Class Participation	End Sem. Exam	Progressive Evaluation	Internal Viva	L		T	P			
1	MEL0723	Refrigeration and Air Conditioning	40	30	30	40	30	30	200	2	1	2	4		
2	HUL0702	Principles of management and managerial economics	40	30	30	-	-	-	100	2	1	0	3		
3	Listed	Elective 1	40	30	30	-	-	-	100	3	1	0	4		
4	Listed	Elective 2	40	30	30	-	-	-	100	3	1	0	4		
5	MEO0701	Open Elective- 1	40	30	30	-	-	-	100	3	0	0	3		
6	MEC0704	Evaluation of Industrial Training-3	-	-	-	40	30	30	100	0	0	4	2		
7	MED0705	Major Project	-	-	-	40	30	30	100	0	0	4	2		
Total marks ---800										Total Credits			22		

PROGRAM ELECTIVE- 2

- (1) MEE0717- Theory of Production process
- (2) MEE0703- Product Design and Development
- (3) MEE0704- Reliability Engineering

PROGRAM ELECTIVE- 3

- (1) MEE0725- Automobile Engineering
- (2) MEE0706- Optimization Methods
- (3) MEE0707- Introduction to CFD

OPEN ELECTIVE- 1

- (1) MEO0701 Intellectual Property Right
- (2) MEO0702 Professional Practice, Law and Ethics
- (3) MEO0703 Artificial Intelligence

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SEMESTER VIII

S. No.	Subject Code	Subject Name	Maximum Marks Allotted							Credits Allotted (Subject Wise)			Total Credits	Remarks	
			Theory Slot			Practical Slot				Total Marks	Period Per Week				
			End Sem. Exam	Mid Sem. Exam (Two Tests' Average)	Class Participation	End Sem. Exam	Progressive Evaluation	Internal Viva	L		T	P			
1	MEL0827	CNC & Flexible Manufacturing Systems	40	30	30	40	30	30	200	2	1	2	4		
2	Listed	Program Elective- 4	40	30	30	-	-	-	100	3	1	0	4		
3	Listed	Program Elective- 5	40	30	30	-	-	-	100	3	1	0	4		
4	Listed	Open Elective- 2	40	30	30	-	-	-	100	3	0	0	3		
5	MED0806	Major Project	-	-	-	120	90	90	300	0	0	16	8		
Total marks ---900			Total Credits										23		

PROGRAM ELECTIVE- 4

- (1)MEE809- Vibration and Noise- Measurement & Control
 (2)MEE0811- Advanced Welding Technology profession
 (3)MEE0812- Tribology

PROGRAM ELECTIVE- 5

- (1)MEE0813- Computer Integrated Manufacturing
 (2)MEE0814-Non Destructive testing
 (3)MEE0816- Finite Element Method

OPEN ELECTIVE- 2

- MEO0804-Organizational Behavior
 MEO0805-Total Quality Control
 MEO0806-Statistical Quality control

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