



STUDY AND EVALUATION SCHEME (2023-2024)

SUBJECT-WISE DISTRIBUTION OF MARKS AND CORRESPONDING CREDITS

Program:BTech(MechanicalEngineering)

Semester:1st

S.No.	Subject Code	Subject Name	Maximum Marks Allotted						Credits Allotted			Total Credits	
			Theory			Practical			Total Marks	L	T		P
			End Sem. Exam	Mid Sem. Exam	Class Participation	End Sem. Exam	Prograssive Evaluation	Internal Viva					
1	ECL0101[T]	Basic Electronics	40	30	30	0	0	0	100	2	1	0	3
2	HUL0101[T]	Communication Skills & Colloquim	40	30	30	0	0	0	100	3	0	0	3
3	MAL0101[T]	Calculus For Engineers	40	30	30	0	0	0	100	2	1	0	3
4	MEL0101[T]	Engineering Mechanics	40	30	30	0	0	0	100	2	1	0	3
5	MEL0104[T]	Material Science	40	30	30	0	0	0	100	3	1	0	4
6	ECL0101[P]	Basic Electronics	0	0	0	40	0	0	40	0	0	1	1
7	HUL0101[P]	Communication Skills & Colloquim	0	0	0	40	0	0	40	0	0	1	1
8	MAL0101[P]	Calculus For Engineers	0	0	0	40	0	0	40	0	0	1	1
9	MEL0101[P]	Engineering Mechanics	0	0	0	40	0	0	40	0	0	1	1
10	MEP0101[P]	Mechanical Workshop Practice	0	0	0	40	0	0	40	0	0	2	2
Total Credits												22	

*Newly Added Courses

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STUDY AND EVALUATION SCHEME (SUBJECT-WISE DISTRIBUTION OF MARKS AND CORRESPONDING CREDITS)

Name of Course: BTech(MechanicalEngineering)

Semester: 2nd

S.No.	Subject Code	Subject Name	Maximum Marks Allotted							Credits Allotted			Total Credits
			Theory			Practical			Total Marks	L	T	P	
			End Sem. Exam	Mid Sem. Exam	Class Participation	End Sem. Exam	Prograssive Evaluation	Internal Viva					
1	CSL0201[T]	Essentials of Information Technology	40	30	30	0	0	0	100	2	0	0	2
2	EEL0201[T]	Principles of Electrical Engineering	40	30	30	0	0	0	100	2	1	0	3
3	MAL0203[T]	Statistics for Engineers	40	30	30	0	0	0	100	2	1	0	3
4	MCL0201[T]	Environmental Pollution and global issues	40	30	30	0	0	0	100	3	1	0	4
5	MCL0202[T]	Making of Modern India	40	30	30	0	0	0	100	2	0	0	2
6	MEL0202[T]	Engineering Graphics	40	30	30	0	0	0	100	2	0	0	2
7	MEL0240[T]	Manufacturing Technology-I	40	30	30	0	0	0	100	2	1	0	3
8	CSL0201[P]	Essentials of Information Technology	0	0	0	40	30	30	100	0	0	1	1
9	CST0201[P]	Programming logics	0	0	0	40	30	30	100	0	0	2	2
10	EEL0201[P]	Principles of Electrical Engineering	0	0	0	40	30	30	100	0	0	1	1
11	MAL0203[P]	Statistics for Engineers	0	0	0	40	30	30	100	0	0	1	1
12	MEL0202[P]	Engineering Graphics	0	0	0	40	30	30	100	0	0	1	1
13	MEL0240[P]	Manufacturing Technology-I	0	0	0	40	30	30	100	0	0	1	1
Total Credits													26

*Newly Added Courses

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STUDY AND EVALUATION SCHEME

(SUBJECT-WISE DISTRIBUTION OF MARKS AND CORRESPONDING CREDITS)

Name of Course: BTech(MechanicalEngineering)

Semester:3rd

S.No.	Subject Code	Subject Name	Maximum Marks Allotted							Credits Allotted			Total Credits
			Theory			Practical			Total Marks	L	T	P	
			End Sem. Exam	Mid Sem. Exam	Class Participation	End Sem. Exam	Prograssive Evaluation	Internal Viva					
1	MEL 0341[T]	Manufacturing Technology –II	40	30	30	0	0	0	100	2	1	0	3
2	MAL0308[T]	Engineering Mathematics	40	30	30	0	0	0	100	2	1	0	3
3	MEL 0308[T]	Measurement and Metrology	40	30	30	0	0	0	100	2	1	0	3
4	MEL 0310[T]	Mechanics of Solids	40	30	30	0	0	0	100	2	1	0	3
5	MEL0305[T]	Basic Thermodynamics	40	30	30	0	0	0	100	2	1	0	3
6	MEL 0341[P]	Manufacturing Technology –II	0	0	0	40	30	30	100	0	0	1	1
7	MED0301[P]	Evaluation of Industrial Training-1	0	0	0	40	30	30	100	0	0	2	2
8	MEL 0308[P]	Measurement and Metrology	0	0	0	40	30	30	100	0	0	1	1
9	MEL 0310[P]	Mechanics of Solids	0	0	0	40	30	30	100	0	0	1	1
10	MEL0305[P]	Basic Thermodynamics	0	0	0	40	30	30	100	0	0	1	1
11	MEP0302[P]	Machine drawing	0	0	0	40	30	30	100	0	0	2	2
Total Credits												23	

*Newly Added Courses

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STUDY AND EVALUATION SCHEME

(SUBJECT-WISE DISTRIBUTION OF MARKS AND CORRESPONDING CREDITS)

Name of Course: BTech(MechanicalEngineering)

Semester: 4th

S.No.	Subject Code	Subject Name	Maximum Marks Allotted							Credits Allotted			Total Credits
			Theory			Practical			Total Marks	L	T	P	
			End Sem. Exam	Mid Sem. Exam	Class Participation	End Sem. Exam	Prograssive Evaluation	Internal Viva					
1	MEL0407[T]	Fluid mechanics	40	30	30	0	0	0	100	2	1	0	3
2	MEL0409[T]	Industrial Engineering	40	30	30	0	0	0	100	2	1	0	3
3	MEL0411[T]	Energy Conversion Systems	40	30	30	0	0	0	100	2	1	0	3
4	MEL0415[T]	Kinematics of Machines	40	30	30	0	0	0	100	2	1	0	3
5	MEL0442[T]	Machining processes	40	30	30	0	0	0	100	2	1	0	3
6	CSP0401[P]	Object Oriented Programming Methodology (Python)	0	0	0	40	30	30	100	0	0	2	2
7	MEL0407[P]	Fluid mechanics	0	0	0	40	30	30	100	0	0	1	1
8	MEL0411[P]	Energy Conversion Systems	0	0	0	40	30	30	100	0	0	1	1
9	MEL0442[P]	Machining processes	0	0	0	40	30	30	100	0	0	1	1
Total Credits												20	

*Newly Added Courses

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STUDY AND EVALUATION SCHEME (SUBJECT-WISE DISTRIBUTION OF MARKS AND CORRESPONDING CREDITS)

Name of Course: BTech(Mechanical Engineering)

Semester: 5th

S.No.	Subject Code	Subject Name	Maximum Marks Allotted							Credits Allotted			Total Credits
			Theory			Practical			Total Marks	L	T	P	
			End Sem. Exam	Mid Sem. Exam	Class Participation	End Sem. Exam	Progressive Evaluation	Internal Viva					
1	MEL0515[T]	Machine Design-I	40	30	30	0	0	0	100	2	1	0	3
2	MEL0516[T]	IC Engines	40	30	30	0	0	0	100	2	1	0	3
3	MEL0518[T]	Dynamics of Machines	40	30	30	0	0	0	100	2	1	0	3
4	MEL0521[T]	Fluid Machinery	40	30	30	0	0	0	100	2	1	0	3
5	MEL0522[T]	Advanced Manufacturing	40	30	30	0	0	0	100	2	1	0	3
6	MEL0523[T]	Industrial Automation and Control	40	30	30	0	0	0	100	2	1	0	3
7	MED0502[P]	Evaluation of Industrial Training-2	0	0	0	40	30	30	100	0	0	2	2
8	MEL0515[P]	Machine Design-I	0	0	0	40	30	30	100	0	0	1	1
9	MEL0516[P]	IC Engines	0	0	0	40	30	30	100	0	0	1	1
10	MEL0518[P]	Dynamics of Machines	0	0	0	40	30	30	100	0	0	1	1
11	MEL0521[P]	Fluid Machinery	0	0	0	40	30	30	100	0	0	1	1
Total Credits												24	

*Newly Added Courses

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STUDY AND EVALUATION SCHEME

(SUBJECT-WISE DISTRIBUTION OF MARKS AND CORRESPONDING CREDITS)

Name of Course: BTech(MechanicalEngineering)

Semester: 6th

S.No.	Subject Code	Subject Name	Maximum Marks Allotted							Credits Allotted			Total Credits
			Theory			Practical			Total Marks	L	T	P	
			End Sem. Exam	Mid Sem. Exam	Class Participation	End Sem. Exam	Prograssive Evaluation	Internal Viva					
1	MEL 0627[T]	Additive Manufacturing	40	30	30	0	0	0	100	2	1	0	3
2	MEL0617[T]	Machine Design-II	40	30	30	0	0	0	100	2	1	0	3
3	MEL0619[T]	Heat and Mass Transfer	40	30	30	0	0	0	100	2	1	0	3
4	MEL0626[T]	Operations Research	40	30	30	0	0	0	100	2	1	0	3
5	MED0603[P]	Minor Project	0	0	0	40	30	30	100	0	0	2	2
6	MEL 0627[P]	Additive Manufacturing	0	0	0	40	30	30	100	0	0	1	1
7	MEL0617[P]	Machine Design-II	0	0	0	40	30	30	100	0	0	1	1
8	MEL0619[P]	Heat and Mass Transfer	0	0	0	40	30	30	100	0	0	1	1
9		Elective1.	40	30	30	0	0	0	100	2	1	0	3
Total Credits												20	

*Newly Added Courses

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STUDY AND EVALUATION SCHEME

(SUBJECT-WISE DISTRIBUTION OF MARKS AND CORRESPONDING CREDITS)

Name of Course: BTech(Mechanical Engineering)

Semester: 7th

S.No.	Subject Code	Subject Name	Maximum Marks Allotted							Credits Allotted			Total Credits
			Theory			Practical			Total Marks	L	T	P	
			End Sem. Exam	Mid Sem. Exam	Class Participation	End Sem. Exam	Prograssive Evaluation	Internal Viva					
1	MEL0722[T]	Computer Aided Design	40	30	30	0	0	0	100	2	1	0	3
2	MEL0723[T]	Refrigeration and Air Conditioning	40	30	30	0	0	0	100	2	1	0	3
3	MEL0727[T]	Total Quality Management	40	30	30	0	0	0	100	2	1	0	3
4	MEC0701[P]	Training Report	0	0	0	40	30	30	100	0	0	2	2
5	MED0702[P]	Major Project	0	0	0	40	30	30	100	0	0	2	2
6	MEL0722[P]	Computer Aided Design	0	0	0	40	30	30	100	0	0	1	1
7	MEL0723[P]	Refrigeration and Air Conditioning	0	0	0	40	30	30	100	0	0	1	1
8		Elective3.	40	30	30	0	0	0	100	2	1	0	3
9		Elective2.	40	30	30	0	0	0	100	2	1	0	3
Total Credits												21	

*Newly Added Courses

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STUDY AND EVALUATION SCHEME

(SUBJECT-WISE DISTRIBUTION OF MARKS AND CORRESPONDING CREDITS)

Name of Course: BTech(Mechanical Engineering)

Semester: 8th

S.No.	Subject Code	Subject Name	Maximum Marks Allotted							Credits Allotted			Total Credits
			Theory			Practical			Total Marks	L	T	P	
			End Sem. Exam	Mid Sem. Exam	Class Participation	End Sem. Exam	Prograssive Evaluation	Internal Viva					
1	MEL0825[T]	Automobile Engineering	40	30	30	0	0	0	100	2	1	0	3
2	MEL0827[T]	CNC and Flexible Manufacturing Systems	40	30	30	0	0	0	100	2	1	0	3
3	MED0803[P]	Major Project	0	0	0	120	90	90	300	0	0	8	8
4	MEL0825[P]	Automobile Engineering	0	0	0	40	30	30	100	0	0	1	1
5	MEL0827[P]	CNC and Flexible Manufacturing Systems	0	0	0	40	30	30	100	0	0	1	1
6		Elective5.	40	30	30	0	0	0	100	2	1	0	3
7		Elective4.	40	30	30	0	0	0	100	2	1	0	3
Total Credits												22	

*Newly Added Courses

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List of Elective Subjects

Subject Code	Subject Name	Subject Type	Semester
J622	Electric Vehicle Engineering	Elective1	6th
J623	Tribology Engineering	Elective1	6th
J621	Robotic Process Automation	Elective1.	6th
J709	Industrial Robotics	Elective2	7th
J710	Alternative fuels and emission control	Elective2	7th
J717	Theory of Production process	Elective2	7th
J703	Product Design and Development	Elective2.	7th
J706	Optimization Methods	Elective3	7th
J707	Introduction to Computational Fluid Dynamics	Elective3	7th
J711	Sensors, Actuators and Signal Conditioning	Elective3	7th
J705	Non-Conventional Energy resources	Elective3.	7th
J814	Non Destructive testing	Elective4	8th
J817	Simulation and Modeling	Elective4	8th
J818	Project Management	Elective4	8th
J809	Vibration and Noise- Measurement and Control	Elective4.	8th
J816	Finite Element Method	Elective5	8th
J819	Production and Operation Management	Elective5	8th
J820	Machine learning for Robotics	Elective5	8th
J813	Computer Integrated Manufacturing	Elective5.	8th