



## STUDY AND EVALUATION SCHEME (2019-2020)

### SUBJECT-WISE DISTRIBUTION OF MARKS AND CORRESPONDING CREDITS

Program:BTech(MechanicalEngineering)

Semester:1st

S.No.	Course Code	Course 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	PHL0101[T]	Engineering Physics	40	30	30	0	0	0	100	3	0	0	3
6	ECL0101[P]	Basic Electronics	0	0	0	40	30	30	100	0	0	1	1
7	HUL0101[P]	Communication Skills & Colloquim	0	0	0	40	30	30	100	0	0	1	1
8	MAL0101[P]	Calculus For Engineers	0	0	0	40	30	30	100	0	0	1	1
9	MEL0101[P]	Engineering Mechanics	0	0	0	40	30	30	100	0	0	1	1
10	MEP0101[P]	Mechanical Workshop Practice	0	0	0	40	30	30	100	0	0	2	2
11	PHL0101[P]	Engineering Physics	0	0	0	40	30	30	100	0	0	1	1
<b>Total Credits</b>											<b>22</b>		

\*Newly Added Courses

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**STUDY AND EVALUATION SCHEME (2019-2020)**  
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rogramme:BTech(MechanicalEngineering)

Semester:2nd

S.No.	Course Code	Course 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	ESL0201[T]	Environmental Science and Pollution Control	40	30	30	0	0	0	100	2	1	0	3
4	MAL0203[T]	Statistics for Engineers	40	30	30	0	0	0	100	2	1	0	3
5	MEL0202[T]	Engineering Graphics	40	30	30	0	0	0	100	2	1	0	3
6	MEL0204[T]	Manufacturing Technology-I	40	30	30	0	0	0	100	2	1	0	3
7	CSL0201[P]	Essentials of Information Technology	0	0	0	40	30	30	100	0	0	1	1
8	EEL0201[P]	Principles of Electrical Engineering	0	0	0	40	30	30	100	0	0	1	1
9	ESL0201[P]	Environmental science and Pollution Control	0	0	0	40	30	30	100	0	0	1	1
10	MAL0203[P]	Statistics for Engineers	0	0	0	40	30	30	100	0	0	1	1
11	MEL0202[P]	Engineering Graphics	0	0	0	40	30	30	100	0	0	1	1
12	MEL0204[P]	Manufacturing Technology-I	0	0	0	40	30	30	100	0	0	1	1
<b>Total Credits</b>												<b>23</b>	

\*Newly Added Courses

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## STUDY AND EVALUATION SCHEME (2019-2020)

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rogramme:BTech(MechanicalEngineering)

Semester:3rd

S.No.	Course Code	Course 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	MEL0304[T]	Material Science	40	30	30	0	0	0	100	3	1	0	4
2	MEL0305[T]	Basic Thermodynamics	40	30	30	0	0	0	100	3	1	0	4
3	MEL 0308[T]	Measurement and Metrology	40	30	30	0	0	0	100	3	1	0	4
4	MEL 0310[T]	Mechanics of Solids	40	30	30	0	0	0	100	3	1	0	4
5	MEL 0341[T]	Manufacturing Technology –II	40	30	30	0	0	0	100	3	1	0	4
6	MEC0301[P]	Evaluation of Industrial Training-1	0	0	0	40	30	30	100	0	0	2	2
7	MEL0305[P]	Basic Thermodynamics	0	0	0	40	30	30	100	0	0	1	1
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	MEL 0341[P]	Manufacturing Technology –II	0	0	0	40	30	30	100	0	0	1	1
<b>Total Credits</b>												<b>26</b>	

\*Newly Added Courses

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**STUDY AND EVALUATION SCHEME (2019-2020)**  
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rogramme:BTech(MechanicalEngineering)

Semester:4th

S.No.	Course Code	Course 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	MAL0408[T]	Engineering Mathematics-III	40	30	30	0	0	0	100	3	1	0	4
2	MEL0407[T]	Fluid mechanics	40	30	30	0	0	0	100	3	1	0	4
3	MEL0411[T]	Energy Conversion Systems	40	30	30	0	0	0	100	3	1	0	4
4	MEL0415[T]	Kinematics of Machines	40	30	30	0	0	0	100	3	1	0	4
5	MEL0442[T]	Machining processes	40	30	30	0	0	0	100	3	1	0	4
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
<b>Total Credits</b>												<b>25</b>	

\*Newly Added Courses

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## STUDY AND EVALUATION SCHEME (2019-2020)

### ( SUBJECT-WISE DISTRIBUTION OF MARKS AND CORRESPONDING CREDITS)

rogramme:BTech(MechanicalEngineering)

Semester:5th

S.No.	Course Code	Course 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	MEL0515[T]	Machine Design-I	40	30	30	0	0	0	100	3	1	0	4
2	MEL0516[T]	IC Engines	40	30	30	0	0	0	100	3	1	0	4
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	3	1	0	4
6	MEL0523[T]	Industrial Automation and Control	40	30	30	0	0	0	100	3	1	0	4
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
<b>Total Credits</b>												<b>28</b>	

\*Newly Added Courses

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**STUDY AND EVALUATION SCHEME (2019-2020)**  
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rogramme:BTech(MechanicalEngineering)

Semester:6th

S.No.	Course Code	Course 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	MEL0617[T]	Machine Design-II	40	30	30	0	0	0	100	3	1	0	4
2	MEL0619[T]	Heat and Mass Transfer	40	30	30	0	0	0	100	3	1	0	4
3	MEL0620[T]	Power Plant Engineering	40	30	30	0	0	0	100	3	1	0	4
4	MEL0626[T]	Operations Research	40	30	30	0	0	0	100	3	1	0	4
5	MEL 0627[T]	Additive Manufacturing	40	30	30	0	0	0	100	2	1	0	3
6	MED0603[P]	Minor Project	0	0	0	40	30	30	100	0	0	2	2
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	MEL 0627[P]	Additive Manufacturing	0	0	0	40	30	30	100	0	0	1	1
<b>Total Credits</b>												<b>24</b>	

\*Newly Added Courses

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## STUDY AND EVALUATION SCHEME (2019-2020)

( SUBJECT-WISE DISTRIBUTION OF MARKS AND CORRESPONDING CREDITS)

rogramme:BTech(MechanicalEngineering)

Semester:7th

S.No.	Course Code	Course 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	3	1	0	4
2	MEL0723[T]	Refrigeration and Air Conditioning	40	30	30	0	0	0	100	3	1	0	4
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		Elective2.	40	30	30	0	0	0	100	3	1	0	4
9		Elective1.	40	30	30	0	0	0	100	3	1	0	4
<b>Total Credits</b>												<b>25</b>	

\*Newly Added Courses

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**STUDY AND EVALUATION SCHEME (2019-2020)**  
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rogramme:BTech(MechanicalEngineering)

Semester:8th

S.No.	Course Code	Course 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	3	1	0	4
2	MEL0827[T]	CNC and Flexible Manufacturing Systems	40	30	30	0	0	0	100	3	1	0	4
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		Elective4.	40	30	30	0	0	0	100	3	1	0	4
7		Elective3.	40	30	30	0	0	0	100	3	1	0	4
<b>Total Credits</b>												<b>26</b>	

\*Newly Added Courses

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## List of Elective Subjects

Course Code	Course Name	Subject Type	Semeste
J702	Unconventional manufacturing processes	Elective1	7th
J703	Product Design and Development	Elective1	7th
J704	Reliability Engineering	Elective1	7th
J717	Theory of Production process	Elective1.	7th
J706	Optimization Methods	Elective2	7th
J707	Introduction to Computational Fluid Dynamics	Elective2	7th
J708	Mechanical System design	Elective2	7th
J705	Non-Conventional Energy resources	Elective2.	7th
J810	Foundry Engineering	Elective3	8th
J811	Advanced welding technology	Elective3	8th
J812	Tribology Engineering	Elective3	8th
J809	Vibration and Noise- Measurement and Control	Elective3.	8th
J814	Non Destructive testing	Elective4	8th
J815	Design of Machine Tools	Elective4	8th
J816	Finite Element Method	Elective4	8th
J813	Computer Integrated Manufacturing	Elective4.	8th