



SAGE UNIVERSITY, INDORE
Institute Name :- Institute of Engineering and Technology
Department:- Mechanical Engineering
PROGRAM STRUCTURE
CHOICE BASED GRADING SYSTEM
Effective For ACADEMIC SESSION: 2024-25

Program :-Diploma in Mechanical Engineering

Program code: Diploma (ME)

Semester: I

For Admission Batch: 2024-25

Subject wise Distribution of Marks and corresponding Credits

S.No.	Subject Code	Subject Title	Maximum Marks Allotted											Total		
			Theory(100 Marks)			Studio/Practical (50 Marks)				Total Marks	Hours/week				Credits	Hours
			End Sem	Continuous Internal Evaluation		End Sem. Exam (ESE)	Continuous Internal Evaluation		L		T	P	NTCC			
				Mid Sem Test (MST)	Attendance/Quiz/Assignment		Lab Work/WPR	Attendance /Assignment/viva / Lab manual/					Studio /Field Work/ outreach			
1	DBSNOMAT001T	Mathematics-I	60	20	20	-	-	-	100	3	1	-	-	4	4	
2	DCSNOITC001T	Introduction to Computers	60	20	20	-	-	-	100	3	1	-	-	4	4	
3	DMENOIME001T	Introduction to Mechanical Engineering	60	20	20	-	-	-	100	3	1	-	-	4	4	
4	DMENOMFG001T	Manufacturing Processes-I	60	20	20	-	-	-	100	3	0	-	-	3	3	
5	DBSNOCHM001T	Chemistry	60	20	20	-	-	-	100	3	1	-	-	4	4	
6	DCSNOITC001P	Introduction to Computers Lab	-	-	-	30	10	10	50	-	-	2	-	1	2	
7	DMENOIME001P	Introduction to Mechanical Engineering Lab	-	-	-	30	10	10	50	-	-	2	-	1	2	
8	DBSNOCHM001P	Chemistry Lab	-	-	-	30	10	10	50	-	-	2	-	1	2	
9	DMENOWSP001P	Workshop Practice	-	-	-	30	10	10	50	-	-	4	-	2	4	
10	DMENOPRA001N	Professional Activities	-	-	-		20	30	50	-	-	-	4	2		
		Total	300	100	100	120	60	70	750	15	4	10	4	26	29	
11	Optional	Massive on line open courses(MOOC)					30*	20*	50*					3*	6*	

NOTE: NTCC assessment shall be as per NTCC Guidelines. [NTCC: Field work/Major& Minor Project/Studio/Outreach/Term Paper/ Assignment/ Seminar/Policy Debate/Internship]. One credit of NTCC refers to Two Hours of activities in the chosen area.
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Program code: Diploma (ME)

Semester: II

For Admission Batch: 2024-25

Subject wise Distribution of Marks and corresponding Credits

S.No.	Subject Code	Subject Title	Maximum Marks Allotted										Total			
			Theory(100 Marks)			Studio/Practical (50 Marks)				Total Marks	Hours/week				Credits	Hours
			End Sem	Continuous Internal Evaluation		End Sem. Exam (ESE)	Continuous Internal Evaluation		L		T	P	NTCC			
				Mid Sem Test (MST)	Attendance/Quiz/Assignment		Lab Work/WPR	Attendance /Assignment/viva / Lab manual/					Studio /Field Work/ outreach			
1	DBSNOMAT002T	Mathematics-II	60	20	20	-	-	-	100	3	1	-	-	4	4	
2	DBSNOCOS001T	Communication Skills	60	20	20	-	-	-	100	3	1	-	-	4	4	
3	DBSNOPHY001T	Physics	60	20	20	-	-	-	100	3	1	-	-	4	4	
4	DMENOAPM001T	Applied Mechanics	60	20	20	-	-	-	100	3	-	-	-	3	3	
5	DMENOENG001T	Engineering Graphics	60	20	20	-	-	-	100	1	0	-	-	1	1	
6	DECNOBEX003T	Basic Electrical	60	20	20	-	-	-	100	2	0	-	-	2	2	
7	DBSNOPHY001P	Physics Lab	-	-	-	30	10	10	50	-	-	2	-	1	2	
8	DBSNOCOS001P	Communication Skills Lab	-	-	-	30	10	10	50	-	-	2	-	1	2	
9	DMENOAPM001P	Applied Mechanics Lab	-	-	-	30	10	10	50	-	-	2	-	1	2	
10	DMENOENG001P	Engineering Graphics Lab	-	-	-	30	10	10	50	-	-	6	-	3	6	
11	DMENOPRA002N	Professional Activities	-	-	-	-	20	30	50	-	-	-	4	2		
		Total	360	120	120	120	60	70	850	15	3	12	4	26	30	
12	Optional	Massive on line open courses(MOOC)					30*	20*	50*					3*	6*	

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Program code: Diploma (ME)
For Admission Batch: 2023-24

Semester: III

Subject wise Distribution of Marks and corresponding Credits

S.No.	Subject Code	Subject Title	Maximum Marks Allotted										Total		
			Theory(100 Marks)			Studio/Practical (50 Marks)			Total Marks	Hours/week				Credits	Hours
			End Sem	Continuous Internal Evaluation		End Sem. Exam (ESE)	Continuous Internal Evaluation			L	T	P	NTCC		
				Mid Sem Test (MST)	Attendance/Quiz/Assignment		Lab Work/WPR	Attendance /Assignment/viva / Lab manual/					Studio /Field Work/ outreach		
1	DMENODGN001T	Strength of Material	60	20	20	-	-	-	100	3	-	-	-	3	3
2	DMENOMTR001T	Material Technology	60	20	20	-	-	-	100	3	-	-	-	3	3
3	DMENOMFG002T	Manufacturing Processes-II	60	20	20	-	-	-	100	3	-	-	-	3	3
4	DMENODGN002T	Mechanical Drafting & Autocad	60	20	20	-	-	-	100	3	-	-	-	3	3
5	DMENODGN001P	Strength of Material Lab	-	-	-	30	10	10	50	-	-	2	-	1	2
6	DMENOMTR001P	Material Technology Lab	-	-	-	30	10	10	50	-	-	2	-	1	2
7	DMENOMFG002P	Manufacturing Processes-II Lab	-	-	-	30	10	10	50	-	-	2	-	1	2
8	DMENODGN002P	Mechanical Drafting & Autocad Lab	-	-	-	30	10	10	50	-	-	4	-	2	4
9	DMENOMES001P	Mechanical Software Lab/VAC	-	-	-	30	10	10	50	-	-	4	-	2	4
		Total	240	80	80	150	50	50	650	12	0	14	0	19	26
10	Optional	Massive on line open courses(MOOC)					30*	20*	50*					3*	6*

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For Admission Batch: 2023-24

Semester: IV

Subject wise Distribution of Marks and corresponding Credits

S.No.	Subject Code	Subject Title	Maximum Marks Allotted											Total		
			Theory(100 Marks)			Studio/Practical (50 Marks)				Total Marks	Hours/week				Credits	Hours
			End Sem	Continuous Internal Evaluation		End Sem. Exam (ESE)	Continuous Internal Evaluation		L		T	P	NTCC			
				Mid Sem Test (MST)	Attendance/Quiz/Assignment		Lab Work/WPR	Attendance /Assignment/viva / Lab manual/					Studio /Field Work/ outreach			
1	DMENOFMLM001T	Fluid Mechanics and Hydraulic Machines	60	20	20	-	-	-	100	3	-	-	-	3	3	
2	DMENOTHM001T	Thermal Engineering	60	20	20	-	-	-	100	3	-	-	-	3	3	
3	DMENOTOM001T	Theory of Machines	60	20	20	-	-	-	100	3	-	-	-	3	3	
4	DMENOIDE001T	Industrial Engineering	60	20	20	-	-	-	100	3	-	-	-	3	3	
5	DMENOFMLM001P	Fluid Mechanics and Hydraulic Machines Lab	-	-	-	30	10	10	50	-	-	2	-	1	2	
6	DMENOTHM001P	Thermal Engineering Lab	-	-	-	30	10	10	50	-	-	2	-	1	2	
7	DMENOTOM001P	Theory of Machines Lab	-	-	-	30	10	10	50	-	-	2	-	1	2	
8	DMENOIDE001P	Industrial Engineering Lab	-	-	-	30	10	10	50	-	-	2	-	1	2	
9	DMENOMFG003P	Machine Tool Technology Lab-I	-	-	-	30	10	10	50	-	-	4	-	2	4	
		Total	240	80	80	150	50	50	650	12	0	12	0	18	24	
10	Optional	Massive on line open courses(MOOC)					30*	20*	50*					3*	6*	

Note: 4 Weeks Industrial training/VAP after end of IV sem which will be assessed in V sem.

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Semester: V

Subject wise Distribution of Marks and corresponding Credits

S.No.	Subject Code	Subject Title	Maximum Marks Allotted										Total			
			Theory(100 Marks)			Studio/Practical (50 Marks)				Total Marks	Hours/week				Credits	Hours
			End Sem	Continuous Internal Evaluation		End Sem. Exam (ESE)	Continuous Internal Evaluation		L		T	P	NTCC			
				Mid Sem Test (MST)	Attendance/Quiz/Assignment		Lab Work/WPR	Attendance /Assignment/viva / Lab manual/					Studio /Field Work/ outreach			
1	DMENOPPC001T	Process Planning and Estimating Cost	60	20	20	-	-	-	100	3	-	-	-	3	3	
2	DMENOMFG004T	Machine Tool Technology	60	20	20	-	-	-	100	3	1	-	-	4	4	
3	DMENOEMP001T	Engineering Measurement and Maintenance Practices	60	20	20	-	-	-	100	3	-	-	-	3	3	
4	DMENOMFG005T	Modern Practices in Manufacturing and Management	60	20	20	-	-	-	100	3	1	-	-	4	4	
5	DMENOMFG004P	Machine Tool Technology Lab-II	-	-	-	30	10	10	50	-	-	2	-	1	2	
6	DMENOEMP001P	Engineering Measurement & Maintenance Practices Lab	-	-	-	30	10	10	50	-	-	2	-	1	2	
7	DMENOMFG005P	Modern Practices in Manufacturing and Management Lab	-	-	-	30	10	10	50	-	-	2	-	1	2	
8	DMENOMNP001N	Minor Project	-	-	-	-	20	30	50	-	-	-	4	2	-	
9	DMENOIND001N	Industrial Training	-	-	-	-	20	30	50	-	-	-	4	2	-	
		Total	240	80	80	90	70	90	650	12	2	6	8	21	20	
10	Optional	Massive on line open courses(MOOC)					30*	20*	50*					3*	6*	

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For Admission Batch: 2022-23

Semester: VI

Subject wise Distribution of Marks and corresponding Credits

S.No.	Subject Code	Subject Title	Maximum Marks Allotted											Total		
			Theory(100 Marks)			Studio/Practical (50 Marks)				Total Marks	Hours/week				Credits	Hours
			End Sem	Continuous Internal Evaluation		End Sem. Exam (ESE)	Continuous Internal Evaluation		L		T	P	NTCC			
				Mid Sem Test (MST)	Attendance/Quiz/Assignment		Lab Work/WPR	Attendance /Assignment/viva / Lab manual/					Studio /Field Work/ outreach			
1	DMENODGN003T	Design of Machine Element	60	20	20	-	-	-	100	3	-	-	-	3	3	
2	DMENOAUE001T	Automobile Engineering	60	20	20	-	-	-	100	3	-	-	-	3	3	
3	Select from List	Elective-I	60	20	20	-	-	-	100	3	-	-	-	3	3	
4	Select from List	Elective -II	60	20	20	-	-	-	100	3	-	-	-	3	3	
5	DMENODGN003P	Design of Machine Element Lab	-	-	-	30	10	10	50	-	-	2	-	1	2	
6	DMENOAUE001P	Automobile Engineering Lab	-	-	-	30	10	10	50	-	-	2	-	1	2	
7	DMENOVER001P	Vehicle Maintenance Lab	-	-	-	30	10	10	50	-	-	4	-	2	4	
8	DMENOMJP001N	Major Project	-	-	-	-	40	60	100	-	-	-	8	4	-	
		Total	240	80	80	90	70	90	650	12	0	8	8	20	20	
9	Optional	Massive on line open courses(MOOC)					30*	20*	50*					3*	6*	

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Elective I	DMENOMFG006T	Production Planning and Control
	DMENOTHM002T	Internal Combustion Engines
	DMENOETP001T	Entrepreneurship

Elective II	DMENOTHM003T	Power Plant Engineering
	DMENOTHM004T	Refrigeration and Air Conditioning
	DMENOTQC001T	Total Quality Control

SAGE University
Sagar Institute of Research and Technology
Department of Mechanical Engineering
Summary of Program Structure of Diploma in Mechanical Engineering

S. N.	Semester	Credits			Hours/week		
		Theory	Practical	Total Credit	Theory	Practical	Total Hours
1	I	19	7	26	19	14	33
2	II	18	8	26	18	16	34
3	III	12	7	19	12	14	26
4	IV	12	6	18	12	12	24
5	V	14	7	21	14	10	24
6	VI	12	8	20	12	16	28
Total		87	43	130	87	82	169