



**SAGE UNIVERSITY, INDORE**  
**Institute Name :- Institute of Engineering and Technology**  
**Department:- Mechanical Engineering**  
**PROGRAM STRUCTURE**  
**CHOICE BASED GRADING SYSTEM**

**Effective For ACADEMIC SESSION: 2025-26**

**Program :-Diploma in Mechanical Engineering**

**Program code: Diploma (ME)**

**Semester: I**

**For Admission Batch: 2025-26**

**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/W PR	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 Activity- I	-	-	-		20	30	50	-	-	-	4	2		
		<b>Total</b>	<b>300</b>	<b>100</b>	<b>100</b>	<b>120</b>	<b>60</b>	<b>70</b>	<b>750</b>	<b>15</b>	<b>4</b>	<b>10</b>	<b>4</b>	<b>26</b>	<b>29</b>	
11	Optional	Massive on line open courses(MOOC)					30*	20*	50*					3*	6*	

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**PROGRAM STRUCTURE**  
**CHOICE BASED GRADING SYSTEM**

**Effective For ACADEMIC SESSION: 2025-26**

**Program :-Diploma in Mechanical Engineering**

**Semester: II**

**Subject wise Distribution of Marks and corresponding Credits**

<b>Program code: Diploma (ME)</b>
<b>For Admission Batch: 2025-26</b>

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 Activity-I	-	-	-	-	20	30	50	-	-	-	4	2		
		<b>Total</b>	<b>360</b>	<b>120</b>	<b>120</b>	<b>120</b>	<b>60</b>	<b>70</b>	<b>850</b>	<b>15</b>	<b>3</b>	<b>12</b>	<b>4</b>	<b>26</b>	<b>30</b>	
12	<b>Optional</b>	Massive on line open courses(MOOC)					30*	20*	50*					3*	6*	

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**CHOICE BASED GRADING SYSTEM**

**Effective For ACADEMIC SESSION: 2025-26**

**Program :-Diploma in Mechanical Engineering**

**Program code: Diploma (ME)**

**Semester: III**

**For Admission Batch: 2025-26, 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	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	-	-	-	30	10	10	50	-	-	4	-	2	4	
		<b>Total</b>	<b>240</b>	<b>80</b>	<b>80</b>	<b>150</b>	<b>50</b>	<b>50</b>	<b>650</b>	<b>12</b>	<b>0</b>	<b>14</b>	<b>0</b>	<b>19</b>	<b>26</b>	
10	<b>Optional</b>	Massive on line open courses(MOOC)					30*	20*	50*					3*	6*	

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**Program :-Diploma in Mechanical Engineering**

**Program code: Diploma (ME)**

**Semester: IV**

**For Admission Batch: 2025-26, 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	DMENOFM001T	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	DMENOFM001P	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	
		<b>Total</b>	<b>240</b>	<b>80</b>	<b>80</b>	<b>150</b>	<b>50</b>	<b>50</b>	<b>650</b>	<b>12</b>	<b>0</b>	<b>12</b>	<b>0</b>	<b>18</b>	<b>24</b>	
10	<b>Optional</b>	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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**Program :-Diploma in Mechanical Engineering**

**Program code: Diploma (ME)**

**Semester: V**

**For Admission Batch: 2025-26, 2024-25, 2023-24**

**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	-	
		<b>Total</b>	<b>240</b>	<b>80</b>	<b>80</b>	<b>90</b>	<b>70</b>	<b>90</b>	<b>650</b>	<b>12</b>	<b>2</b>	<b>6</b>	<b>8</b>	<b>21</b>	<b>20</b>	
10	<b>Optional</b>	Massive on line open courses(MOOC)					30*	20*	50*					3*	6*	

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**Program :-Diploma in Mechanical Engineering**

**Program code: Diploma (ME)**

**Semester: VI**

**For Admission Batch: 2025-26, 2024-25, 2023-24**

**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	-	
		<b>Total</b>	<b>240</b>	<b>80</b>	<b>80</b>	<b>90</b>	<b>70</b>	<b>90</b>	<b>650</b>	<b>12</b>	<b>0</b>	<b>8</b>	<b>8</b>	<b>20</b>	<b>20</b>	
9	<b>Optional</b>	Massive on line open courses(MOOC)					30*	20*	50*					3*	6*	

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<b>Elective I</b>	DMENOMFG006T	Production Planning and Control
	DMENOTHM002T	Internal Combustion Engines
	DMENOETP001T	Entrepreneurship

<b>Elective II</b>	DMENOTHM003T	Power Plant Engineering
	DMENOTHM004T	Refrigeration and Air Conditioning
	DMENOTQC001T	Total Quality Control