

**Course Structure of Diploma in Engineering Probidhan- 2022(Mechanical Allied Technology)**  
**Technology Name: Mechanical Technology**

**Mechanical Technology(70)**

**1st Semester**

Sl. No.	Subject		Period Per Week		Credit	Marks Distribution						Grand Total
						Theory Assessment			Practical Assessment			
	Code	Name	Theory	Practical		Continuous	Final	Total	Continuous	Final	Total	
1	21011	Engineering Drawing	-	6	2	-	-	-	50	50	100	100
2	25711	Bangla-I	2	-	2	40	60	100	-	-	-	100
3	25712	English-I	2	-	2	40	60	100	-	-	-	100
4	25812	Physical Education & Life Skills Development	-	3	1	-	-	-	25	25	50	50
5	25911	Mathematics -I	3	3	4	60	90	150	25	25	50	200
6	25912	Physics -I	3	3	4	60	90	150	25	25	50	200
7	27011	Basic Workshop Practice	-	3	1	-	-	-	25	25	50	50
8	27012	Machine Shop Practice I	1	6	3	20	30	50	50	50	100	150
<b>Total</b>			<b>11</b>	<b>24</b>	<b>19</b>	<b>220</b>	<b>330</b>	<b>550</b>	<b>200</b>	<b>200</b>	<b>400</b>	<b>950</b>
<b>Total Period</b>					<b>35</b>							
<b>Theory:Practical (Ratio)</b>			<b>31.4%</b>	<b>68.6%</b>								

**Mechanical Technology(70)**

**2nd Semester**

Sl. No.	Subject		Period Per Week		Credit	Marks Distribution						Grand Total
						Theory Assessment			Practical Assessment			
	Code	Name	Theory	Practical		Continuous	Final	Total	Continuous	Final	Total	
1	25721	Bangla -II	2	-	2	40	60	100	-	-	-	100
2	25722	English-II	2	-	2	40	60	100	-	-	-	100
3	25921	Mathematics-II	3	3	4	60	90	150	25	25	50	200
4	25922	Physics -II	3	3	4	60	90	150	25	25	50	200
5	26711	Basic Electricity	3	3	4	60	90	150	25	25	50	200
6	27021	Mechanical Engineering Drawing	1	6	3	20	30	50	50	50	100	150
7	27022	Mechanical Engineering Materials	2	-	2	40	60	100	-	-	-	100
<b>Total</b>			<b>16</b>	<b>15</b>	<b>21</b>	<b>320</b>	<b>480</b>	<b>800</b>	<b>125</b>	<b>125</b>	<b>250</b>	<b>1,050</b>
<b>Total Period</b>					<b>31</b>							
<b>Theory:Practical (Ratio)</b>			<b>51.6%</b>	<b>48.4%</b>								

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**3rd Semester**

Sl. No.	Subject		Period Per Week		Credit	Marks Distribution						
						Theory Assessment			Practical Assessment			Grand Total
	Code	Name	Theory	Practical		Continuous	Final	Total	Continuous	Final	Total	
1	25811	Social Science	2	-	2	40	60	100	-	-	-	100
2	25831	Business Communication	2	-	2	40	60	100	-	-	-	100
3	25913	Chemistry	3	3	4	60	90	150	25	25	50	200
4	25931	Mathematics-III	3	3	4	60	90	150	25	25	50	200
5	26611	Computer Office Application	-	6	2	-	-	-	50	50	100	100
6	27031	Machine Shop Practice-II	1	6	3	20	30	50	50	50	100	150
7	27231	RAC Cycles and Components	2	3	3	40	60	100	25	25	50	150
<b>Total</b>			<b>13</b>	<b>21</b>	<b>20</b>	<b>260</b>	<b>390</b>	<b>650</b>	<b>175</b>	<b>175</b>	<b>350</b>	<b>1,000</b>
<b>Total Period</b>					<b>34</b>							
<b>Theory:Practical (Ratio)</b>			<b>38.2%</b>	<b>61.8%</b>								

**Mechanical Technology(70)**

**4th Semester**

Sl. No.	Subject		Period Per Week		Credit	Marks Distribution						
						Theory Assessment			Practical Assessment			Grand Total
	Code	Name	Theory	Practical		Continuous	Final	Total	Continuous	Final	Total	
1	25841	Accounting	2	-	2	40	60	100	-	-	-	100
2	26811	Basic Electronics	2	3	3	40	60	100	25	25	50	150
3	27041	Engineering Mechanics	2	3	3	40	60	100	25	25	50	150
4	27042	Machine Shop Practice III	1	6	3	20	30	50	50	50	100	150
5	27043	Metallurgy	2	3	3	40	60	100	25	25	50	150
6	27131	Engineering Thermodynamics	3	3	4	60	90	150	25	25	50	200
7	29041	Environmental Studies	2	3	3	40	60	100	25	25	50	150
<b>Total</b>			<b>14</b>	<b>21</b>	<b>21</b>	<b>280</b>	<b>420</b>	<b>700</b>	<b>175</b>	<b>175</b>	<b>350</b>	<b>1,050</b>
<b>Total Period</b>					<b>35</b>							
<b>Theory:Practical (Ratio)</b>			<b>40.0%</b>	<b>60.0%</b>								

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**5th Semester**

Sl. No.	Subject		Period Per Week		Credit	Marks Distribution						
						Theory Assessment			Practical Assessment			Grand Total
	Code	Name	Theory	Practical		Continuous	Final	Total	Continuous	Final	Total	
1	25852	Industrial Management	2	-	2	40	60	100	-	-	-	100
2	26667	Progammig in C	2	3	3	40	60	100	25	25	50	150
3	27051	Fluid Mechanics & Machineries	3	3	4	60	90	150	25	25	50	200
4	27052	Mechanical Estimating & Costing	2	3	3	40	60	100	25	25	50	150
5	27053	Advanced Welding-I	2	6	4	40	60	100	50	50	100	200
6	27054	Foundry & Pattern Making	2	3	3	40	60	100	25	25	50	150
7	27055	Manufacturing Process	3	-	3	60	90	150	-	-	-	150
<b>Total</b>			<b>16</b>	<b>18</b>	<b>22</b>	<b>320</b>	<b>480</b>	<b>800</b>	<b>150</b>	<b>150</b>	<b>300</b>	<b>1,100</b>
<b>Total Period</b>			<b>34</b>									
<b>Theory:Practical (Ratio)</b>			<b>47.1%</b>	<b>52.9%</b>								

**Mechanical Technology(70)**

**6th Semester**

Sl. No.	Subject		Period Per Week		Credit	Marks Distribution						
						Theory Assessment			Practical Assessment			Grand Total
	Code	Name	Theory	Practical		Continuous	Final	Total	Continuous	Final	Total	
1	25851	Principles of Marketing	2	-	2	40	60	100	-	-	-	100
2	26211	Automobile Fundamentals	2	3	3	40	60	100	25	25	50	150
3	27061	Strength of Materials	3	3	4	60	90	150	25	25	50	200
4	27062	Mechanical Measurement & Metrology	2	3	3	40	60	100	25	25	50	150
5	27063	CAD & CAM	1	6	3	20	30	50	50	50	100	150
6	27064	Advanced Welding-II	2	3	3	40	60	100	25	25	50	150
7	27065	Plant Engineering & Maintainance	2	3	3	40	60	100	25	25	50	150
<b>Total</b>			<b>14</b>	<b>21</b>	<b>21</b>	<b>280</b>	<b>420</b>	<b>700</b>	<b>175</b>	<b>175</b>	<b>350</b>	<b>1,050</b>
<b>Total Period</b>			<b>35</b>									
<b>Theory:Practical (Ratio)</b>			<b>40.0%</b>	<b>60.0%</b>								

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**Mechanical Technology(70)**

**7th Semester**

Sl. No.	Subject		Period Per Week		Credit	Marks Distribution						
	Code	Name	Theory	Practical		Theory Assessment			Practical Assessment			Grand Total
						Continuous	Final	Total	Continuous	Final	Total	
1	25853	Innovation & Entrepreneurship	2	-	2	40	60	100	-	-	-	100
2	27071	Design of Machine Elements	3	3	4	60	90	150	25	25	50	200
3	27072	Tool Design	3	3	4	60	90	150	25	25	50	200
4	27073	Heat Treatment of Metal	2	3	3	40	60	100	25	25	50	150
5	27074	Mechanical Engineering Project	-	6	2	-	-	-	50	50	100	100
6	27075	Production Planning & Control	3	-	3	60	90	150	-	-	-	150
7	29231	Mechatronics & PLC	3	3	4	60	90	150	25	25	50	200
<b>Total</b>			<b>16</b>	<b>18</b>	<b>22</b>	<b>320</b>	<b>480</b>	<b>800</b>	<b>150</b>	<b>150</b>	<b>300</b>	<b>1,100</b>
<b>Total Period</b>			<b>34</b>									
<b>Theory:Practical (Ratio)</b>			<b>47.1%</b>	<b>52.9%</b>								

**Mechanical Technology(70)**

**8th Semester**

Sl. No.	Subject		Period Per Week		Credit	Marks Distribution						
	Code	Name	Theory	Practical		Theory Assessment			Practical Assessment			Grand Total
						Continuous	Final	Total	Continuous	Final	Total	
1	27081	Industrial Attachement	-	24	8	-	-	-	200	200	400	400
2		Project Presentation	-	12	4	-	-	-	100	100	200	200
<b>Total</b>			<b>-</b>	<b>36</b>	<b>12</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>300</b>	<b>300</b>	<b>600</b>	<b>600</b>
<b>Total Period</b>			<b>36</b>									
<b>Theory:Practical (Ratio)</b>			<b>0.0%</b>	<b>100.0%</b>								

**Course Structure of Diploma in Engineering Probidhan- 2022(Mechanical Allied Technology)**

**Technology Name: Mechanical Technology**

**Mechanical Technology(70)**

**Summary Structure (All Semester)**

Sl. No.	Semester	Period Per Week		Credit	Marks Distribution						
		Theory	Practical		Theory Assessment			Practical Assessment			Grand Total
					Continuous	Final	Total	Continuous	Final	Total	
1	1st Semester	11	24	19	220	330	550	200	200	400	950
2	2nd Semester	16	15	21	320	480	800	125	125	250	1,050
3	3rd Semester	13	21	20	260	390	650	175	175	350	1,000
4	4th Semester	14	21	21	280	420	700	175	175	350	1,050
5	5th Semester	16	18	22	320	480	800	150	150	300	1,100
6	6th Semester	14	21	21	280	420	700	175	175	350	1,050
7	7th Semester	16	18	22	320	480	800	150	150	300	1,100
8	8th Semester	-	36	12	-	-	-	300	300	600	600
<b>Total</b>		<b>100</b>	<b>174</b>	<b>158</b>	<b>2,000</b>	<b>3,000</b>	<b>5,000</b>	<b>1,450</b>	<b>1,450</b>	<b>2,900</b>	<b>7,900</b>
<b>Total Period</b>		<b>274</b>									
<b>Theory:Practical (Ratio)</b>		<b>36.5%</b>	<b>63.5%</b>								