

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

Name of Technology: Mechanical Technology

Mechanical Technology(70)

1st Semester

Sl. No.	Subject Code & Name		Period Per Week		Credit	Marks Distribution						
						Theory Assessment			Practical Assessment			Grand Total
	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
Total			11	24	19	220	330	550	200	200	400	950
Total Period			35									
Theory:Practical (%)			31.4%	68.6%								

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2nd Semester

Sl. No.	Subject Code & Name		Period Per Week		Credit	Marks Distribution						
						Theory Assessment			Practical Assessment			Grand Total
	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	25913	Chemistry	3	3	4	60	90	150	25	25	50	200
4	25921	Mathematics-II	3	3	4	60	90	150	25	25	50	200
5	25922	Physics -II	3	3	4	60	90	150	25	25	50	200
6	26711	Basic Electricity	3	3	4	60	90	150	25	25	50	200
7	27021	Mechanical Engineering Drawing	1	6	3	20	30	50	50	50	100	150
Total			17	18	23	340	510	850	150	150	300	1150
Total Period			35									
Theory:Practical (%)			48.6%	51.4%								

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3rd Semester

Sl. No.	Subject Code & Name		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	25931	Mathematics-III	3	3	4	60	90	150	25	25	50	200
4	27031	Mechanical Engineering Materials	2	-	2	40	60	100	-	-	-	100
5	27032	Machine Shop Practice-II	1	6	3	20	30	50	50	50	100	150
6	27231	RAC Cycles and Components	2	3	3	40	60	100	25	25	50	150
7	28511	Computer Office Application	-	6	2	-	-	-	50	50	100	100
Total			12	18	18	240	360	600	150	150	300	900
Total Period					30							
Theory:Practical (%)			40.0%	60.0%								

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4th Semester

Sl. No.	Subject Code & Name		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
Total			14	21	21	280	420	700	175	175	350	1050
Total Period					35							
Theory:Practical (%)			40.0%	60.0%								

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5th Semester

Sl. No.	Subject Code & Name		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	27051	Fluid Mechanics & Machineries	3	3	4	60	90	150	25	25	50	200
3	27052	Mechanical Estimating & Costing	2	3	3	40	60	100	25	25	50	150
4	27053	Advanced Welding-I	2	6	4	40	60	100	50	50	100	200
5	27054	Foundry & Pattern Making	2	3	3	40	60	100	25	25	50	150
6	27055	Manufacturing Process	3	-	3	60	90	150	-	-	-	150
7	28567	Progammig in C	2	3	3	40	60	100	25	25	50	150
Total			16	18	22	320	480	800	150	150	300	1100
Total Period			34									
Theory:Practical (%)			47.1%	52.9%								

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6th Semester

Sl. No.	Subject Code & Name		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
Total			14	21	21	280	420	700	175	175	350	1050
Total Period			35									
Theory:Practical (%)			40.0%	60.0%								

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7th Semester

Sl. No.	Subject Code & Name		Period Per Week		Credit	Marks Distribution						
						Theory Assessment			Practical Assessment			Grand Total
	Code	Name	Theory	Practical		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
Total			16	18	22	320	480	800	150	150	300	1100
Total Period			34									
Theory:Practical (%)			47.1%	52.9%								

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8th Semester

Sl. No.	Subject Code & Name		Period Per Week		Credit	Marks Distribution						
						Theory Assessment			Practical Assessment			Grand Total
	Code	Name	Theory	Practical		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
Total			-	36	12	-	-	-	300	300	600	600
Total Period			36									
Theory:Practical (%)			0.0%	100.0%								

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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	17	18	23	340	510	850	150	150	300	1150
3	3rd Semester	12	18	18	240	360	600	150	150	300	900
4	4th Semester	14	21	21	280	420	700	175	175	350	1050
5	5th Semester	16	18	22	320	480	800	150	150	300	1100
6	6th Semester	14	21	21	280	420	700	175	175	350	1050
7	7th Semester	16	18	22	320	480	800	150	150	300	1100
8	8th Semester	-	36	12	-	-	-	300	300	600	600
Total		100	174	158	2,000	3,000	5,000	1,450	1,450	2,900	7900
Total Period		274									
Theory:Practical (%)		36.5%	63.5%								