

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
Total			11	24	19	220	330	550	200	200	400	950
Total Period			35									
Theory:Practical (Ratio)			31.4%	68.6%								

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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	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	25	380	570	950	150	150	300	1,250
Total Period			35									
Theory:Practical (Ratio)			48.6%	51.4%								

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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	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	12	16	240	360	600	100	100	200	800
Total Period			24									
Theory:Practical (Ratio)			50.0%	50.0%								

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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
Total			14	21	21	280	420	700	175	175	350	1,050
Total Period			35									
Theory:Practical (Ratio)			40.0%	60.0%								

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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	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			14	15	19	280	420	700	125	125	250	950
Total Period			29									
Theory:Practical (Ratio)			48.3%	51.7%								

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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
Total			14	21	21	280	420	700	175	175	350	1,050
Total Period			35									
Theory:Practical (Ratio)			40.0%	60.0%								

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7th 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	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	1,100
Total Period			34									
Theory:Practical (Ratio)			47.1%	52.9%								

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8th 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	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 (Ratio)			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	25	380	570	950	150	150	300	1,250
3	3rd Semester	12	12	16	240	360	600	100	100	200	800
4	4th Semester	14	21	21	280	420	700	175	175	350	1,050
5	5th Semester	14	15	19	280	420	700	125	125	250	950
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
Total		98	165	158	2,000	3,000	5,000	1,450	1,450	2,900	7,900
Total Period		263									
Theory:Practical (Ratio)		37.3%	62.7%								