

Course Structure of Diploma In Engineering Probidhan-2022 (Electrical Allied)
Name og Technology: Electromedical

Electromedical Technology (86)

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	26711	Basic Electricity	3	3	4	60	90	150	25	25	50	200
8	28611	Human Anatomy and Physiology	2	-	2	40	60	100	-	-	-	100
Total			15	18	21	300	450	750	150	150	300	1050
Total Period					33							
Theory:Practical (%)			45.5%	54.5%								

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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	25921	Mathematics-II	3	3	2	60	90	150	25	25	50	200
4	25922	Physics -II	3	3	4	60	90	150	25	25	50	200
5	26721	Electrical Circuits-I	3	3	4	60	90	150	25	25	50	200
6	26811	Basic Electronics	2	3	3	40	60	100	25	25	50	150
7	28621	Basic Biomedical Engineering	2	3	3	40	60	100	25	25	50	150
Total			17	15	20	340	510	850	125	125	250	1100
Total Period					32							
Theory:Practical (%)			53.1%	46.9%								

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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	25913	Chemistry	3	3	4	60	90	150	25	25	50	200
3	25931	Mathematics-III	3	3	4	60	90	150	25	25	50	200
4	28511	Computer Office Application	-	6	2	20	30	50	25	25	50	100
5	26731	Electrical Circuits-II	3	3	4	60	90	150	25	25	50	200
6	28631	Medical transducer and Sensors	2	3	3	40	60	100	25	25	50	150
7	28632	Operating Room Equipment	1	3	2	20	30	50	25	25	50	100
Total			14	21	21	300	450	750	150	150	300	1050
Total Period					35							
Theory:Practical (%)			40.0%	60.0%								

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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	26741	Electrical Installation,Planning and Estimating	3	3	4	60	90	150	25	25	50	200
3	26742	DC Machine	3	3	4	60	90	150	25	25	50	200
4	26752	Electrical & Electronic Measurements-I	2	3	3	40	60	100	25	25	50	150
5	26845	Digital Electronics	3	3	4	60	90	150	25	25	50	200
6	28641	Dental Equipment	1	3	2	20	30	50	25	25	50	100
7	28642	Anesthesia and Respiratory Equipment	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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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	25851	Principle of Marketing	2	-	2	40	60	100	-	-	-	100
2	25852	Industrial Management	2	-	2	40	60	100	-	-	-	100
3	28567	Programming in C	2	3	3	40	60	100	25	25	50	150
4	26761	AC Machine-I	3	3	4	60	90	150	25	25	50	200
5	26763	Electrical & Electronic Measurements-II	2	3	3	40	60	100	25	25	50	150
6	28651	Radiology and Imaging Equipment	2	3	3	40	60	100	25	25	50	150
7	28652	Fibre Optics and Laser in Medical Field	2	3	3	40	60	100	25	25	50	150
8	28653	Physiotherapy and Rehabilitation Devices	1	3	2	20	30	50	25	25	50	100
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		Period Per Week		Credit	Marks Distribution						
						Theory Assessment			Practical Assessment			Grand Total
	Code	Name	Theory	Practical		Continuous	Final	Total	Continuous	Final	Total	
1	26764	Transmission and Distribution of Electrical Power	3	3	4	60	90	150	25	25	50	200
2	26771	AC Machine-II	3	3	4	60	90	150	25	25	50	200
3	28661	Diagonestic and Laboratory Equipment	2	3	3	40	60	100	25	25	50	150
4	28662	Microprocesor and Biomedical Application	2	3	3	40	60	100	25	25	50	150
5	28663	Testing and Maintenance Biomedical Equipment	1	3	2	20	30	50	25	25	50	100
6	28664	CAD in Biomedical Engineering	-	3	1	-	-	-	25	25	50	50
7	29041	Environmental Studies	2	3	3	40	60	100	25	25	50	150
Total			13	21	20	260	390	650	175	175	350	1000
Total Period			34									
Theory:Practical (%)			38.2%	61.8%								

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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	25831	Business Communication	2	-	2	40	60	100	-	-	-	100
2	25853	Innovation & Entrepreneurship	2	-	2	40	60	100	-	-	-	100
3	26773	Switch Gear and Protection	3	3	4	60	90	150	25	25	50	200
4	28671	Advance Biomedical Equipment	3	3	4	60	90	150	25	25	50	200
5	28672	ICU and CCU Equipment	2	3	3	40	60	100	25	25	50	150
6	28673	Biomedical Engineering Project	-	6	2	-	-	-	50	50	100	100
7	28674	Medical Physics and Nuclear Instruments	2	3	3	40	60	100	25	25	50	150
Total			14	18	20	280	420	700	150	150	300	1000
Total Period					32							
Theory:Practical (%)			43.8%	56.3%								

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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	28681	Industrial Attachement	-	24	8	-	-	-	200	200	400	400
2		Project Presentation	-	12	4	-	-	-	100	100	200	200
3					-	-	-	-	-	-	-	0
4					-	-	-	-	-	-	-	0
5					-	-	-	-	-	-	-	0
6					-	-	-	-	-	-	-	0
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	15	18	21	300	450	750	150	150	300	1050
2	2nd Semester	17	15	20	340	510	850	125	125	250	1100
3	3rd Semester	14	21	21	300	450	750	150	150	300	1050
4	4th Semester	16	18	22	320	480	800	150	150	300	1100
5	5th Semester	16	18	22	320	480	800	150	150	300	1100
6	6th Semester	13	21	20	260	390	650	175	175	350	1000
7	7th Semester	14	18	20	280	420	700	150	150	300	1000
8	8th Semester	-	36	12	-	-	-	300	300	600	600
Total		105	165	158	2,120	3,180	5,300	1,350	1,350	2,700	8000
Total Period		270									
Theory:Practical (%)		38.9%	61.1%								