



**FEDERAL BOARD OF INTERMEDIATE AND
SECONDARY EDUCATION
H-8/4, ISLAMABAD**



**SCHEME OF STUDIES OF DIPLOMA OF ASSOCIATE ENGINEERING
(MECHANICAL TECHNOLOGY-1ST YEAR)**

S.No	Subject Name	Theory	Practical	Total Marks
1.	Islamiyat and Pakistan Studies	50	--	50
2.	Functional English	100	--	100
3.	Applied Mathematics A	75	--	75
4.	Applied Mathematics B	75	--	75
5.	Applied Physics	50	50	100
6.	Applied Chemistry	50	50	100
7.	Workshop Practice-I	100		100
8.	Metal Work		50	50
9.	Wood Work		50	50
10.	Welding and Forging		50	50
11.	Foundry		50	50
12.	Basic Machine Shop – I		50	50
13.	Computer Application	50	50	100
14.	Health Safety and Environment	50	-	50
15.	Basic Engineering Drawing & CAD-I	50	100	150
16.	Mutal e Quran Hakim	50		50
	Total:	700	500	1200



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**SCHEME OF STUDIES OF DIPLOMA OF ASSOCIATE ENGINEERING
(MECHANICAL TECHNOLOGY-2nd YEAR)**

S.No	Subject Name	Theory	Practical	Total Marks
1.	Islamiyat and Pakistan Studies	50	--	50
2.	Applied Mechanics	50	50	100
3.	Applied Mathematics –II	100	--	100
4.	Business Communication	50	--	50
5.	Business Management and Industrial Economics	50	--	50
6.	Applied Electricity and Electronics	50	50	100
7.	Engineering Drawing-II	50	--	50
8.	Machine Drawing	--	50	50
9.	2D & 3D CAD	--	50	50
10.	Workshop Practice-II	100	--	100
11.	Basic Machine Shop – II	--	100	100
12.	Foundry and Pattern Making	--	50	50
13.	Adv. Welding	--	50	50
14.	Metallurgy	100	--	100
15.	Metrology	50	50	100
	Total:	650	450	1100



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**SCHEME OF STUDIES OF DIPLOMA OF ASSOCIATE ENGINEERING
(MECHANICAL TECHNOLOGY-3rd YEAR)**

S.No	Subject Name	Theory	Practical	Total Marks
1.	Islamiyat and Pakistan Studies	50	--	50
2.	Industrial Management and Human Relations	50		50
3.	Hydraulics and Hydraulic Machines	50	50	100
4.	Applied Thermodynamics	100	50	150
5.	Industrial Planning and Production	50		50
6.	Machine Design	100	50	150
7.	Tool & Mould Design	100	50	150
8.	Materials Testing and Heat Treatment	50	50	100
9.	Workshop Practice-III	100	100	200
10.	CAD / CAM	50	50	100
11.	CNC Machines	50	50	100
	Total:	750	450	1200