



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



**SCHEME OF STUDIES OF DIPLOMA OF ASSOCIATE ENGINEERING  
(ELECTRICAL TECHNOLOGY-1st YEAR)**

<b>S. No</b>	<b>Subject Name</b>	<b>Theory</b>	<b>Practical</b>	<b>Total Marks</b>
1.	Islamiyat / Pakistan Studies	50	--	50
2.	English	100	--	100
3.	Applied Mathematics A	75	--	75
4.	Applied Mathematics B	75	--	75
5.	Applied Chemistry	50	50	100
6.	Computer Applications	50	50	100
7.	Principles of Electrical Engineering A	75	--	75
8.	Principles of Electrical Engineering B	75	--	75
9.	Principles of Electrical Engineering	--	100	100
10.	Workshop Practice	50	--	50
11.	Wiring	--	100	100
12.	Metal Work	--	50	50
13.	Wood Work	--	50	50
14.	Welding	--	50	50
15.	Basic Electrical Drawing	--	50	50
16.	Mutal e Quran Hakim	50	--	50
	<b>Total:</b>	<b>650</b>	<b>500</b>	<b>1150</b>



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

<b>S.No</b>	<b>Subject Name</b>	<b>Theory</b>	<b>Practical</b>	<b>Total Marks</b>
1.	Islamiyat / Pakistan Studies	50	--	50
2.	Applied Mathematics-II A	75	--	75
3.	Applied Mathematics-II B	75	--	75
4.	Business Management & Industrial Economics	50	--	50
5.	Applied Physics	50	50	100
6.	DC Machine & Batteries	100	50	150
7.	Electrical Instrument and Measurement	100	50	150
8.	Utilization of Electrical Energy	100	50	150
9.	Installation, Planning and Estimating	50	50	100
10.	Basic Electronics	100	50	150
11.	Application of Computer in Electrical Technology	--	50	50
12.	Workshop Practice-II	--	50	50
	<b>Total:</b>	<b>750</b>	<b>400</b>	<b>1150</b>



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

<b>S. No</b>	<b>Subject Name</b>	<b>Theory</b>	<b>Practical</b>	<b>Total Marks</b>
1.	Islamiyat / Pakistan Studies	50	--	50
2.	Industrial Manage: Human Relations	50	--	50
3.	Business Communication	50	--	50
4.	AC Machine A	100	--	100
5.	AC Machine B	100	--	100
6.	AC Machine	--	100	100
7.	Power Plant & Energy Conservation	100	--	100
8.	Trans: Dist. & Protect of Elect Power Systems A	100	--	100
9.	Trans: Dist. & Protect of Elect Power Systems B	100	--	100
10.	Trans: Dist. & Protect of Elect Power Systems	--	50	50
11.	Telecommunication	100	50	150
12.	Repair & Maintenance of Electrical Equipments	50	100	150
13.	Digital & Industrial Electronics A	75	--	75
14.	Digital & Industrial Electronics B	75	--	75
15.	Digital & Industrial Electronics	--	50	50
	<b>Total:</b>	<b>950</b>	<b>350</b>	<b>1300</b>