Table No. (14)
Study Plan - First Year - Electrical Power and Machines Department

First S	emester										
Course		Weekly Hours					rks Distribu		Written	Total	Credit
Code Course Name		Lecture	Applicat Tutorial	tions Lab	Total	Year Work	Oral/ Practical	Written Exam	Exam Hours	Course Grade	Hours
GEN 1501	Mathematics (3)	2	2	-	4	50	-	100	3	150	3
POW 1502	Electromagnetic	3	2	-	5	60	-	140	3	200	4
GEN 1503	Engineering Materials	2	2	-	4	30	-	70	3	100	3
ELC 1504	Programming Language	2	-	2	4	30	30	90	3	150	3
GEN 1505	Professional Legislations	1	1	-	2	10	-	40	2	50	1
GEN 1506	Engineering Commerce	2	1	-	3	30	-	70	3	100	2
Total	Weekly Hours	12	8	2	22		Total	Credit H	ours	•	16
Second	l Semester				ı						
C		Weekly Hours				Marks Distribution			Written	Total	G 1'4
Course Code	Course Name	Lecture	Applicat Tutorial	tions Lab	Total	Year Work	Oral/ Practical	Written Exam	Exam Hours	Course Grade	Credit Hours
GEN 1507	Mathematics (4)	2	2	-	4	50	-	100	3	150	3
POW 1508	Electrical Circuit (1)	2	2	-	4	50	-	100	3	150	3
GEN 1509	Thermodynamic	2	1	-	3	30	-	70	3	100	2
GEN 1510	Civil Engineering	1	1	-	2	30	-	70	3	100	1
POW 1511	Electric Technology and Workshop	3	-	3	6	30	50	120	3	200	4
GEN 1512	Technical Reports	2	-	-	2	10	-	40	2	50	2
Total	Weekly Hours	12	6	3	21	Total Credit Hours					15
							Total N	Marks		1500	

Workshop training at the faculty for 30 hours per week for four weeks after the second semester exams for the first year.

Table No. (15)
Study Plan - Second Year - Electrical Power and Machines Department

First S	emester										
Course		Weekly Hours					rks Distribu		Written	Total	Credit
Code Course Name		Lecture	Applicat Tutorial	tions Lab	Total	Year Work	Oral/ Practical	Written Exam	Exam Hours	Course Grade	Hours
POW 2501	Electrical Circuit (2)	3	2	-	5	60	-	140	3	200	4
ELC 2502	Electronic Circuit	2	2	1	5	40	40	120	3	200	3
POW 2503	Energy Conversion	2	2	-	4	50	-	100	3	150	3
GEN 2504	Numerical Analysis & Statistics	2	2	-	4	50	-	100	3	150	3
GEN 2505	Project Management	2	-	-	2	10	-	40	2	50	2
Total	Weekly Hours	11	8	1	20	Total Credit Hours					15
Second	l Semester										
Course	Course Name	Weekly Hours				Marks Distribution			Written	Total	Credit
Code		Lecture	Applicat Tutorial	tions Lab	Total	Year Work	Oral/ Practical	Written Exam	Exam Hours	Course Grade	Hours
POW 1506	Electrical Instrumentation	2	2	2	6	40	40	20	3	200	4
POW 1507	Electrical Machine (1)	2	2	2	6	50	50	150	3	250	4
POW 1508	Power Stations	2	1	-	3	30	-	70	3	100	2
ELC 1509	Information Technology	2	-	1	3	20	20	60	3	100	2
GEN 1510	Communication Skill	2	-	-	2	10	-	40	2	50	2
GEN 1511	Environmental Study	2	-	-	2	10	-	40	2	50	2
Total	Weekly Hours	12	5	5	22		Total	Credit H	ours		16
					•		Total N			1500	

Field training at specialized sites outside the faculty for four weeks after the second semester examinations for the second year.

Table No. (16)
Study Plan - Third Year - Electrical Power and Machines Department

First S	emester										
Course		Weekly Hours					rks Distribu		Written	Total	Credit
Code	Course Name	Lecture	Applications		Total	Year	Oral/	Written	Exam	Course	Hours
			Tutorial	Lab	1000	Work	Practical	Exam	Hours	Grade	Tiouis
POW 3501	Power Electronics (1)	2	1	2	5	30	30	90	3	150	3
POW 3502	Electrical Power (1)	2	1	2	5	30	30	90	3	150	3
POW 3503	Electrical Machine (2)	3	2	2	7	40	40	120	3	200	5
POW 3504	Electrical Safety	2	-	-	2	10	-	40	2	50	2
	Elective Course (1)	2	2	-	4	30	-	70	3	100	3
	Field Training									100	
Total	Weekly Hours	11	6	6	23	Total Credit Hours					16
Second	Semester										
Course	Course Name	Weekly Hours				Marks Distribution Written Total					Credit
Code		Lecture	Applications		Total	Year			Exam	Course	Hours
		Lecture	Tutorial	Lab	Total	Work	Practical	Exam	Hours	Grade	110013
POW 3508	Power Electronics (2)	2	1	2	5	30	30	90	3	150	3
POW 3509	Electrical Power (2)	2	1	2	5	30	30	90	3	150	3
POW 3510	Automatic Control Engineering	2	1	2	5	40	40	120	3	200	3
POW 3511	High Voltage	2	-	2	4	30	30	90	3	150	3
	Elective Course (2)	2	2	-	4	30	-	70	3	100	3
Total	Weekly Hours	10	5	8	23	Total Credit Hours					15
		•		•	•	Total Marks 1500					

- Summer field training at specialized sites outside the faculty for four weeks after the second semester examinations for the third year.

Elective Course List (1):

- COM 3505: Communication System
- POW 3506: Electrical Power Quality
- POW 3507: Selected Subjects

Elective Course List (2):

- POW 3512: Renewable Energy
- POW 3513: Electrical Distribution System
- POW 3514: Selected Subjects

Table No. (17)

Study Plan - Fourth Year - Electrical Power and Machines Department

THSUS	emester										
Course		Weekly Hours					rks Distribu		Written	Total	Credi
Code	Course Name	Lecture	Applications		Total	Year	Oral/	Written	Exam	Course	Hours
		Lecture	Tutorial	Lab	Total	Work	Practical	Exam	Hours	Grade	110015
POW 4501	Energy Management	2	-	-	2	10	-	40	2	50	2
POW 4502	Electrical Power System Analysis	2	1	2	5	40	40	120	3	200	3
POW 4503	Digital Control	2	1	1	4	40	40	120	3	200	2
POW 4504	Electrical Drive (1)	2	1	2	5	20	20	60	3	100	3
	Elective Course (3)	2	2	-	4	30	-	70	3	100	3
	Field Training									100	
	Graduation Project	-	4	-	4	50 Continuous					2
Total	Weekly Hours	10	9	5	24	Total Credit Hours					15
Second	Semester										
		Weekly Hours				Marks Distribution			Written	Total	C 1
Course Code	Course Name	Lecture	Applications		Total	Year	Oral/ Written		Exam	Course	Credi Hours
			Tutorial	Lab	Total	Work	Practical	Exam	Hours	Grade	пош
POW 4508	Electrical Drive (2)	2	1	2	5	30	30	90	3	150	3
POW 4509	Power System Protection	2	1	2	5	40	40	120	3	200	3
POW 4510	Power System Control	3	1	-	4	30	-	70	3	100	3
	Elective Course (4)	2	2	-	4	30	-	70	3	100	3
POW 4514	Graduation Project	-	4	-	4	50 Discussion 100 200					
Total	Weekly Hours	9	9	4	22		Total	Credit H	ours		14
10141	Treeling libers				<u> </u>	Total Marks 1500					

Elective Course List (3):

- POW 4505: High Voltage Techniques
- POW 4506: Automatic Control Techniques
- POW 4507: Selected Subjects

Elective Course List (4):

- POW 4511: Security of Electrical Power Systems
- POW 4512: Electrical Power Systems Planning
- POW 4513: Selected Subjects
- Graduation project preparation continues for fourth-year students at a rate of 36 hours per week for four weeks after the second semester examinations.

