



Guidance plan for the Electrical Power Engineering specialization

First Year					
First Semester			Second Semester		
Course No.	Course Title	Cr.H	Course No.	Course Title	Cr.H
AAL101	Applied Arabic language	3	AEL102	Applied English language (2)	3
AEL101	Applied English language (1)	3	30202102	Calculus (2)	3
30202101	Calculus (1)	3	30201102	General Physics (2)	3
30201101	General Physics (1)	3	30206101	General Chemistry (1)	3
35001101	Military Sciences	3	BSE 0201	Programming for Engineers	3
CS101	Computer skills and E-learning (distance learning)	1	30201111	General Physics (1) Practical	1
			BSE 0102	Engineering Workshop	1
Total		16	Total		17

Second Year					
First Semester			Second Semester		
Course No.	Course Title	Cr.H	Course No.	Course Title	Cr. H
ELE 0211	Electrical Circuits (1)	3	ELE 0212	Electrical Circuits (2)	3
ELE 0213	Digital Logic Design	3	ELE 0214	Electrical Circuits Lab.	1
ELE 0205	Linear Algebra	3	ELE0216	Electronics (1)	3
30202203	Ordinary Differential Equations (1)	3	ELE0228	Microprocessors	3
BSE 0203	Technical writing and professional ethics	3	ELE 5216	Digital Logic Design lab.	1
30206102	General Chemistry practical (1)	1	BSE0202	Statistics and Probabilities for Engineers	3
BSE 0205	Engineering Drawing	2	ELE4252	Electromagnetic (1)	3
Total		18	Total		17



Third Year					
First Semester			Second Semester		
Course No.	Course Title	Cr.H	Course No.	Course Title	Cr.H
ELE 0321	Signals and Systems	3	ELE 0322	Communications and data transmission	3
ELE 0313	Electronics Lab.	1	ELE 0334	Control Systems	3
ELE 0335	Electrical Machines I	3	BES 0306	Numerical Methods	3
ELE 1311	Electric and electronic Measurements	3	ELE 0328	Microprocessor systems Lab.	1
ELE 2363	Power Electronics	3	ELE 1352	Electrical Machines II	3
ELE 4311	Electronics (2)	3	ELE 1374	Power System Analysis I	3
			ELE 2362	Power Electronics Lab.	1
			ELE 1358	Electrical Machines Lab.	1
Total		16	Total		18

Fourth Year					
First Semester			Second Semester		
Course No.	Course Title	Cr.H	Course No.	Course Title	Cr.H
ELE 0431	Control Systems Lab.	1	ELE 0442	Training	3
ELE 1471	Power System Protection	3	ELE 1480	Renewable Energy Systems	3
ELE 1475	Electrical Installations & safety	3	ELE 1474	Electrical Power Systems Lab. I.	1
ELE 1473	Power System Analysis II	3	ELE 1472	Power System Protection lab	1
BES0401	Engineering Economics	3	ELE 1476	Electrical Installations & safety Lab.	1
ELE 1479	Power Transmission & Distribution Systems	3	ELE 3427	Communications and data transmission lab.	1
ELE 1477	Modeling & Simulation of Power Systems	1	NE101	National education and university behavior	3
				Specialization Elective I	3
Total		17	Total		16



Fifth Year					
First Semester			Second Semester		
Course No.	Course Title	Cr.H	Course No.	Course Title	Cr.H
ELE 0541	Project 1	1	ELE 0542	Project 2	3
-	Specialization Elective II	3	ELE 1570	Reliability of Power Systems	3
	University Elective I	3	-	University Elective II	3
ELE 1579	Power System Operation & Control	3	-	Specialization Elective III	3
ELE 1571	High Voltage Engineering	3			
	Innovation, Entrepreneurship, and Creativity	2			
Total		15	Total		12