



Recommended Study Plan for Bachelor's
Degree in Electrical Power and Energy Engineering
for year 2019-2020

First Year					
First Semester			Second Semester		
Course No.	Course Title	Cr. Hrs.	Course No.	Course Title	Cr. Hrs.
20132	Calculus (1)	3	11103	Structured Programming	3
20140	Basic Concepts in Chemistry	1	11151	Structured Programming Lab	1
20141	Physics (1)	3	20133	Calculus (2)	3
31111	Arabic Language	3	20142	Physics (2)	3
31151	National Education	3	20150	Physics Lab	1
31153	Introduction to Society, Technology and Environment Protection	0	31121	English Language	3
	Elective University Requirements (General)	3		Elective University Requirements (Scientific, Practical)	3
Total		16	Total		17

Second Year					
First Semester			Second Semester		
Course No.	Course Title	Cr. Hrs.	Course No.	Course Title	Cr. Hrs.
20200	Technical Writing and Communication Skills	3	20234	Linear Algebra	3
20231	Calculus (3)	3	20331	Engineering Mathematics(2)	3
20232	Engineering Mathematics(1)	3	21222	Electric Circuits (2)	3
21218	Engineering Drawing Lab	1	21229	Electric Circuits Lab	1
21219	Engineering Workshop	1	21231	Electronics (1)	3
21221	Electric Circuits (1)	3	22241	Digital Logic Design	3
31251	Military Science	3	Total		16
Total		17			

Third Year					
First Semester			Second Semester		
Course No.	Course Title	Cr. Hrs.	Course No.	Course Title	Cr. Hrs.
21331	Electronics (2)	3	20333	Numerical Analysis	3
21338	Electronics Lab	1	20335	Applied Probability and Statistics	3
23321	Electromagnetics (1)	3	22348	Digital Logic Lab	1
23351	Signals and Systems	3	23357	Communications (1)	3
23356	Programming Applications in Signals & Systems Lab	1	24311	Thermodynamics	3
24322	Instruments and Measurements	3	24361	Electric Machines (1)	3
24329	Instruments and Measurements Lab	1	Total		16
Total		15			

Fourth Year					
First Semester			Second Semester		
Course No.	Course Title	Cr. Hrs.	Course No.	Course Title	Cr. Hrs.
22442	Embedded Systems	3	23411	Engineering Economics	3
24462	Electric Machines (2)	3	24411	Engineering Ethics	1
24463	Power Systems Analysis	3	24467	Power Electronics	3
24468	Electric Machinery Lab	1	24469	Power Systems lab	1
24471	Automatic Control	3	24470	Power Systems Planning, Operation and Control	3
24479	Automatic Control Lab	1	24562	Power Systems Protection	3
	Elective University Requirements (Scientific, Practical)	3	Total		14
Total		17			



Fifth Year					
First Semester			Second Semester		
Course No.	Course Title	Cr. Hrs.	Course No.	Course Title	Cr. Hrs.
24568	Power Electronics Lab	1	24569	Power Systems Protection Lab	1
24575	Power Systems Economics & Reliability	3	24574	Energy Efficiency & Auditing	3
24576	Renewable Energy Systems (1)	3	24592	Senior Project (2)	2
24591	Senior Project (1)	1		Elective Program Requirements	6
	Elective Program Requirements	3		Elective University Requirements (General)	3
	Elective University Requirements (Scientific, Practical)	3		Total	15
	Total	14			