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

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First			
	First Semester		
Course No.	Course Title	Cr. Hrs.	
20132	Calculus (1)	3	
20140	Basic Concepts in Chemistry	1	
20141	Physics (1)	3	
31111	Arabic Language	3	
31151	National Education	3	
31153	Introduction to Society, Technology and Environment Protection	0	
	Elective University Requirements (General)	3	
	Total	16	

t Year						
	Second Semester					
Course No.	Course Title		Cr. Hrs.			
11103	Structured Programming		3			
11151	Structured ProgrammingLab		1			
20133	Calculus (2)		3			
20142	Physics (2)		3			
20150	Physics Lab		1			
31121	English Language		3			
	Elective University Requirements (Scientific, Practical)		3			
		Total	17			

		Seco	
First Semester			
Course No.	Course Title	Cr. Hrs.	
20200	Technical Writing and Communication Skills	3	
20231	Calculus (3)	3	
20232	Engineering Mathematics(1)	3	
21218	Engineering Drawing Lab	1	
21219	Engineering Workshop	1	
21221	Electric Circuits (1)	3	
31251	Military Science	3	
	Total	17	

nd Year					
	Second Semester				
Hrs.	Course Title C	Course No.			
3	r Algebra	20234			
3	eering Mathematics(2)	20331			
3	21222 Electric Circuits (2)				
	ric Circuits Lab	21229			
3	ronics (1)	21231			
3	l Logic Design	22241			
6	Total				
	Il Logic Design				

		Thi		
	First Semester			
Course No.	Course Title	Cr. Hrs.		
21331	Electronics (2)	3		
21338	Electronics Lab	1		
23321	Electromagnetics (1)	3		
23351	Signals and Systems	3		
23356	Programming Applications in Signals & Systems Lab	1		
24322	Instruments and Measurements	3		
24329	Instruments and Measurements Lab	1		
	Total	15		

Ш	rd Year						
		Second Semester					
•	Course No.	Course Title	Cr. Hrs.				
	20333	Numerical Analysis	3				
	20335	Applied Probability and Statistics	3				
	22348	Digital Logic Lab	1				
	23357	Communications (1)	3				
٦	24311	Thermodynamics	3				
4	24361	Electric Machines (1)	3				
4		Total	16				
			1				

		Four		
	First Semester			
Course No.	Course Title	Cr. Hrs.		
22442	Embedded Systems	3		
24462	Electric Machines (2)	3		
24463	Power Systems Analysis	3		
24468	Electric Machinery Lab	1		
24471	Automatic Control	3		
24479	Automatic Control Lab	1		
	Elective University Requirements (Scientific, Practical)	3		
	Total	17		

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		Second Semester				
s.	Course No.	Course Title	Cr. Hrs.			
	23411	Engineering Economics	3			
	24411	Engineering Ethics	1			
	24467	Power Electronics	3			
	24469	Power Systems lab	1			
	24470	Power Systems Planning, Operation and Control	3			
	24562	Power Systems Protection	3			
		Total	14			



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		ioi yeai	2013-2020						
	Fifth Year								
	First Semester	Second Semester							
Course No. Course Title			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		Т	otal	15			
	Total	14							