



Recommended Study Plan for Bachelor's  
Degree in Electrical Power and Energy Engineering  
for year 2017-2018

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
20141	Physics (1)	3	11151	Structured Programming Lab	1
20148	Physics (1) Lab	1	20133	Calculus (2)	3
31111	Arabic Language	3	20142	Physics (2)	3
31151	National Education	3	20149	Physics (2) Lab	1
31153	Introduction to Society, Technology and Environment Protection	0	31121	English Language	3
	Elective University Requirements (General)	3		<b>Total</b>	<b>14</b>
	<b>Total</b>	<b>16</b>			

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	21222	Electric Circuits (2)	3
20232	Engineering Mathematics(1)	3	21229	Electric Circuits Lab	1
21218	Engineering Drawing Lab	1	21231	Electronics (1)	3
21219	Engineering Workshop	1	22241	Digital Logic Design	3
21221	Electric Circuits (1)	3	31251	Military Science	3
	Elective University Requirements (Scientific, Practical)	3		<b>Total</b>	<b>16</b>
	<b>Total</b>	<b>17</b>			

Third Year					
First Semester			Second Semester		
Course No.	Course Title	Cr. Hrs.	Course No.	Course Title	Cr. Hrs.
20331	Engineering Mathematics(2)	3	20333	Numerical Analysis	3
21331	Electronics (2)	3	20334	Applied Probability	3
21338	Electronics Lab	1	22340	Microprocessors & Embedded Systems	3
23351	Signals and Systems	3	22346	Logic & Embedded Systems Lab	1
23352	Programming Applications in Signals & Systems	1	24311	Thermodynamics	3
24322	Instruments and Measurements	3		<b>Total</b>	<b>13</b>
24329	Instruments and Measurements Lab	1			
	<b>Total</b>	<b>15</b>			

Fourth Year					
First Semester			Second Semester		
Course No.	Course Title	Cr. Hrs.	Course No.	Course Title	Cr. Hrs.
24461	Electric Machines (1)	3	24321	Applied Electromagnetics	3
24463	Power Systems Analysis	3	24411	Engineering Ethics	1
24471	Automatic Control	3	24462	Electric Machines (2)	3
24472	Energy Conversion	3	24465	Power Systems Economics	3
24479	Automatic Control Lab	1	24468	Electric Machinery Lab	1
	Elective University Requirements (Scientific, Practical)	3	24469	Power Systems lab	1
			32431	Engineering Economics	3
				Elective University Requirements (Scientific, Practical)	3
	<b>Total</b>	<b>16</b>		<b>Total</b>	<b>18</b>



Fifth Year					
First Semester			Second Semester		
Course No.	Course Title	Cr. Hrs.	Course No.	Course Title	Cr. Hrs.
24561	Power Electronics	3	24562	Power Systems Protection	3
24563	Power Systems Planning, Operation and Control	3	24569	Power Systems Protection Lab	1
24564	Transmission & Distribution Systems	3	24571	Renewable Energy Systems	3
24565	High Voltage Engineering	3	24592	Senior Project (2)	2
24568	Power Electronics Lab	1		Elective Program Requirements	3
24591	Senior Project (1)	1		Elective University Requirements (General)	3
	Elective Program Requirements	3		<b>Total</b>	<b>15</b>
	<b>Total</b>	<b>17</b>			