Study Plan for Bachelor'sDegree in Electronics Engineering for year 2017-2018

The Bachelor's Degree in Electronics Engineering awarded at Princess Sumaya University for Technology after the successful completion of 160 Credit Hours distributed as follows:-

University Requirements (27 CHs)

1. Compulsory Requirements (12 CHs)

Course Number	Course Title	Credit Hours	Prerequisite	Concurrent	Online
11100	Computer Skills (Remedial)	0			Online
31019	Arabic Language(Remedial)	0			Online
31029	English Language (Remedial)	0			Online
31111	Arabic Language	3	31019		Online
31121	English Language	3	31029		Online
31151	National Education	3			Online
31153	Introduction to Society, Technology and Environment Protection	0			
31251	Military Science	3			Online

2. Elective Requirements (15 CHs)

2.1. Elective University Requirements (General) (6 CHs)

Course Number	Course Title	Credit Hours	Prerequisite	Concurrent	Online
20251	History of Science	3			Blended
20252	Arab Islamic Scientific Heritage	3			
31100	Sports and Health	3			Blended
31152	Arabic Islamic Civilization	3			Blended
31161	Introduction to Library Science	3			
31211	Arabic Literature	3	31111		Blended
31252	Governance and Development	3			Blended
31261	Introduction to Politics and Economic Science	3			Blended
31262	Introduction to Educational Science	3			
31271	Environmental Science	3			Blended
31351	Contemporary Issues in the Arab World	3			Blended
31352	Jerusalem : History and Facts	3			Blended
31361	Introduction to Philosophy	3			Blended
31371	Health Education	3			

2.2. Elective University Requirements (Scientific, Practical) (9 CHs)

Course Number	Course Title	Credit Hours	Prerequisite	Concurrent	Online
31130	Foreign languages	3			Blended
31255	Entrepreneurship for Business	3	Finish 60 Credit Hours		Online
31311	Scientific Research Methods	3			Blended
31372	Business Skills	3	Finish 60 Credit Hours		Online

School Requirements (30 CHs)

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1. Compulsory Requirements (30 CHs)

Course Number	Course Title	Credit Hours	Prerequisite	Concurrent	Online
11103	Structured Programming	3	11100		
11151	Structured Programming Lab	1		11103	
20132	Calculus (1)	3			
20133	Calculus (2)	3	20132		
20141	Physics (1)	3			
20142	Physics (2)	3	20141		
20148	Physics (1) Lab	1		20141	
20149	Physics (2) Lab	1		20142	
20200	Technical Writing and Communication Skills	3	31111,31121		Blended
20231	Calculus (3)	3	20133		
21218	Engineering Drawing Lab	1			Blended
21219	Engineering Workshop	1			
24411	Engineering Ethics	1	Finish 99 Credit Hours		Blended
32431	Engineering Economics	3	Finish 99 Credit Hours		Blended

Program Requirements (103 CHs)

1. Compulsory Requirements (94 CHs)

Course Number	Course Title	Credit Hours	Prerequisite	Concurrent	Online
20232	Engineering Mathematics(1)	3	20133		Blended
20234	Linear Algebra	3	20132		
20331	Engineering Mathematics(2)	3	20231,20232		Blended
20333	Numerical Analysis	3	20133		Blended
20334	Applied Probability	3	20231		Blended
21221	Electric Circuits (1)	3	20142		
21222	Electric Circuits (2)	3	21221		
21229	Electric Circuits Lab	1		21222	
21231	Electronics (1)	3	21221		
21331	Electronics (2)	3	21231		
21332	Digital Electronics	3	21331		
21338	Electronics Lab	1	21229	21331	
21339	Digital Electronics Lab	1	21338	21332	
21431	Communication Electronics	3	21331,23353		
21432	Optical Electronics	3	21331		Blended
21439	Communication Electronics Lab	1	21338	21431	
21490	Practical Training	3	Finish 115 Credit Hours		
21531	VLSI Circuits	3	21332		Blended
21572	Industrial Electronics	3	24471		
21579	Industrial Electronics Lab	1	21338	21572	
21591	Senior Project (1)	1	21490,Finish 118 Credit Hours		Blended
21592	Senior Project (2)	2	21591		Blended

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Course Number	Course Title	Credit Hours	Prerequisite	Concurrent	Online
22241	Digital Logic Design	3			
22344	Microprocessors	3	21231,22241		
22347	Logic &Microprocessors Lab	1		22344	
22442	Embedded Systems	3	22344		
23351	Signals and Systems	3	20232,21222	23352	Blended
23352	Programming Applications in Signals & Systems	1		23351	
23353	Analog Communications	3	23351		Blended
23451	Digital Communications	3	20334,23353		Blended
23459	Communications Lab	1	21338	23451	
23571	Digital Signal Processing	3	23351		Blended
24321	Applied Electromagnetics	3	20142,20331		
24322	Instruments and Measurements	3	21231		
24329	Instruments and Measurements Lab	1	21229	24322	
24464	Machines & Electrical Power Systems	3	21222,24321		
24471	Automatic Control	3	23351		
24479	Automatic Control Lab	1		24471	
24561	Power Electronics	3	21331		

2. Elective Requirements (9 CHs)

Course Number	Course Title	Credit Hours	Prerequisite	Concurrent	Online
11206	Object Oriented Programming	3	11103		
21533	RF Microelectronics	3	21331,23353		Blended
21534	Mixed Signal IC Design	3	21331		Blended
21535	Solid State Electronics	3	21231		Blended
21536	Analog IC Design	3	21331		Blended
21573	Image Processing	3	23351		Blended
21574	Medical Electronics	3	21331		Blended
21581	Special Topics in Electronics Engineering	3			Blended
22444	Computer Architecture & Organization (1)	3	22241		
22581	Special Topics in Computer Engineering	3			
23581	Special Topics in Communications Engineering	3			Blended
24573	Digital Control	3	24471		Blended
24581	Special Topics in Power Engineering	3			Blended