



Study Plan for Bachelor's Degree in Electronics Engineering

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 (18 CHs)

Course Number	Course Title	Credit Hours	Prerequisite	Concurrent
11100	Computer Skills (Remedial)	0		
31021	Arabic Language Communication Skills (Remedial)	0		
31022	English Language Communication Skills (Remedial)	0		
31112	Arabic Language Communication Skills	3	31021	
31122	English Language Communication Skills	3	31022	
31151	National Education	3		
31160	Leadership and Societal Responsibility	0		
31251	Military Science	3		
31254	Entrepreneurship and Innovation	3	Finish 60 Credit Hours	
31374	Life Skills	3	Finish 60 Credit Hours	

2. Elective Requirements (9 CHs)

Course Number	Course Title	Credit Hours	Prerequisite	Concurrent
20251	History of Science	3		
31100	Sports and Health	3		
31130	Foreign languages	3		
31152	Arabic Islamic Civilization	3		
31211	Arabic Literature	3	31112	
31252	Governance and Development	3		
31260	Human Rights	3		
31261	Introduction to Politics and Economic Science	3		
31264	Introduction To Psychology	3		
31272	Development and Environment	3		
31311	Scientific Research Methods	3		
31351	Contemporary Issues in the Arab World	3		
31352	Jerusalem : History and Facts	3		
31362	Philosophy and Critical Thinking	3		

School Requirements (30 CHs)

1. Compulsory Requirements (30 CHs)

Course Number	Course Title	Credit Hours	Prerequisite	Concurrent
11103	Structured Programming	3	11100	
11151	Structured Programming Lab	1		11103
20132	Calculus (1)	3		
20133	Calculus (2)	3	20132	



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Course Number	Course Title	Credit Hours	Prerequisite	Concurrent
20140	Basic Concepts in Chemistry	1		
20141	Physics (1)	3		
20142	Physics (2)	3	20141	
20150	Physics Lab	1		20142
20200	Technical Writing and Communication Skills	3	31112,31122	
20231	Calculus (3)	3	20133	
21218	Engineering Drawing Lab	1		
21219	Engineering Workshop	1		
23411	Engineering Economics	3	Finish 99 Credit Hours	
24411	Engineering Ethics	1	Finish 99 Credit Hours	

Program Requirements (103 CHs)

1. Compulsory Requirements (94 CHs)

Course Number	Course Title	Credit Hours	Prerequisite	Concurrent
20232	Engineering Mathematics(1)	3	20133	
20234	Linear Algebra	3		
20331	Engineering Mathematics(2)	3	20231,20232	
20333	Numerical Analysis	3	20133	
20335	Applied Probability and Statistics	3	20231	
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	21231	
21338	Electronics Lab	1	21229	21331
21339	Digital Electronics Lab	1	21229	21332
21431	Communication Electronics	3	21331,23357	
21432	Optical Electronics	3	21331	
21439	Communication Electronics Lab	1	21338	21431
21490	Practical Training	3	Finish 99 Credit Hours	
21531	VLSI Circuits	3	21332	
21572	Industrial Electronics	3	24471	
21574	Medical Electronics	3	21331	
21579	Industrial Electronics Lab	1	21338	21572
21591	Senior Project (1)	1	Finish 120 Credit Hours	
21592	Senior Project (2)	2	21591	
22241	Digital Logic Design	3		
22348	Digital Logic Lab	1	22241	
22442	Embedded Systems	3	21231,21338,22241,22348	
23321	Electromagnetics (1)	3	20142,20331	
23351	Signals and Systems	3	20232,21222	23356



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Course Number	Course Title	Credit Hours	Prerequisite	Concurrent
23356	Programming Applications in Signals & Systems Lab	1		23351
23357	Communications (1)	3	23351	
23452	Communications (2)	3	20335,23357	
23459	Communications Lab	1	21338	23452
23571	Digital Signal Processing	3	23351	
24322	Instruments and Measurements	3	21222,21231	
24329	Instruments and Measurements Lab	1	21229	24322
24361	Electric Machines (1)	3	21222,23321	
24467	Power Electronics	3	21331,24361	
24471	Automatic Control	3	23351	
24479	Automatic Control Lab	1		24471

2. Elective Requirements (9 CHs)

Course Number	Course Title	Credit Hours	Prerequisite	Concurrent
11206	Object Oriented Programming	3	11103	
20242	Materials Physics and Chemistry for Engineers	3	20132,20142	
21533	RF Microelectronics	3	21331,23357	
21534	Mixed Signal IC Design	3	21331	
21535	Solid State Electronics	3	21231	
21536	Analog IC Design	3	21331	
21573	Image Processing	3	23351	
21581	Special Topics in Electronics Engineering	3		
22320	Computer Architecture (1)	3	22241	
22344	Microprocessors	3	21231,22241	
22582	Special Topics in Computer Engineering (1)	3		
23582	Special Topics in Communications Engineering (1)	3		
24573	Digital Control	3	24471	
24583	Special Topics in Power And Energy Engineering	3		
25593	Special Topics in Network Security Engineering (1)	3		