



## Study Plan for Bachelor's Degree in Communications Engineering for year 2015-2016

The Bachelor's Degree in Communications 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
20252	Arab Islamic Scientific Heritage	3			
31100	Sports and Health	3			Blended
31152	Arabic Islamic Civilization	3			Blended
31161	Introduction to Library Science	3			
31171	History of Science	3			Blended
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
00099	99 Credit Hours	0			
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		
24218	Engineering Drawing Using Computers	1			
24219	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
20241	Physics (3)	3	20142		
20331	Engineering Mathematics(2)	3	20231,20232		Blended
20333	Numerical Analysis	3	20133		Blended
20334	Applied Probability	3	20231		Blended
21231	Electronics (1)	3	24221		
21331	Electronics (2)	3	21231		
21332	Digital Electronics	3	21331		
21338	Electronics Lab	1	24229	21331	
21339	Digital Electronics Lab	1	21338	21332	
21431	Communication Electronics	3	21331,23353		
21439	Communication Electronics Lab	1	21338	21431	
22241	Digital Logic Design	3			
22344	Microprocessors	3	21231,22241		
22347	Logic &Microprocessors Lab	1		22344	
22442	Embedded Systems	3	22344		
22448	Embedded Systems Lab	1	22442		
23321	Electromagnetics (1)	3	20142,20331		
23351	Signals and Systems	3	20232,24222		Blended
23352	Programming Applications in Signals & Systems	1		23351	
23353	Analog Communications	3	23351		Blended



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Course Number	Course Title	Credit Hours	Prerequisite	Concurrent	Online
23421	Electromagnetics (2)	3	23321		
23422	Microwave Engineering	3	23421		
23451	Digital Communications	3	20334,23353		Blended
23458	Mobile Development Lab	1	11103		
23459	Communications Lab	1	21338	23451	
23490	Practical Training	3	Finish 99 Credit Hours		
23551	Optical Communications	3	23353		Blended
23552	Cellular Communications	3	23451		
23553	Communication Networks	3	23451		
23557	Optical Communications Lab	1		23551	
23558	Cellular Communications Lab	1	23552		
23559	Communication Networks Lab	1		23553	
23571	Digital Signal Processing	3	23351		Blended
23591	Senior Project (1)	1	Finish 120 Credit Hours		Blended
23592	Senior Project (2)	2	23591		Blended
24221	Electric Circuits (1)	3	20142		
24222	Electric Circuits (2)	3	24221		
24229	Electric Circuits Lab	1		24222	
24471	Automatic Control	3	23351		
24479	Automatic Control Lab	1		24471	

**2. Elective Requirements (9 CHs)**

Course Number	Course Title	Credit Hours	Prerequisite	Concurrent	Online
11206	Object Oriented Programming	3	11103		
21573	Image Processing	3	23351		Blended
21581	Special Topics in Electronics Engineering	3	20334,21331		Blended
22443	Computer Networks	3	20334,22241		
22444	Computer Architecture & Organization (1)	3	22241		
22546	Network Management & Security	3	23553		Blended
22581	Special Topics in Computer Engineering	3			
23554	Coding and Cryptography	3	23451		
23555	Advanced Communications Systems	3	23451		
23556	Satellite Communications	3	23451		
23572	Telecommunications Equipment Operation	3	23451		
23573	Radar Systems	3	23353		
23574	wireless Networks	3	23451		
23581	Special Topics in Communications Engineering	3			Blended
24464	Machines & Electrical Power Systems	3	23321,24222		
24561	Power Electronics	3	21331		
24583	Special Topics in Power And Energy Engineering	3			Blended



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