

Study Plan for Bachelor's Degree in Communication Engineering\Internet of Things for year 2021 - 2022

The Bachelor's Degree in Communication Engineering\Internet of Things 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		
31374	Life Skills	3		

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
11206	Object Oriented Programming	3	11103	
11212	Data Structures and Introduction to Algorithms	3	11206	
11323	Database Systems	3		11212
12243	Webpage Design and Internet programming	3	11206	
20232	Engineering Mathematics(1)	3	20133	
20234	Linear Algebra	3		
20331	Engineering Mathematics(2)	3	20231,20232	
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
21232	Digital Electronics Fundamentals	3	21221	
21338	Electronics Lab	1		
22241	Digital Logic Design	3		
22340	Microprocessors & Embedded Systems	3	21232	
22348	Digital Logic Lab	1		22241
22448	Embedded Systems Lab	1		22340
22460	Operating Systems and Security	3	11212,25330	
22560	Network Programming and Applications	3	23454	
23321	Electromagnetics (1)	3	20142,20331	
23351	Signals and Systems	3	20232,21222	
23355	Communication Principles	3	23351	
23454	Communication Networks	3	23355	
23455	Communication Networks Lab	1		23454
23457	Cellular Communications	3	23355	
23459	Communications Lab	1		23355
23558	Cellular Communications Lab	1		23457
23571	Digital Signal Processing	3	23351	
25330	Information Security Fundamentals	3	20234	



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Course Number	Course Title	Credit Hours	Prerequisite	Concurrent
27331		1	23355	
27453		3		
27454		3		
27490		3	Finish 99 Credit Hours	
27541		3	23454,27331	
27551		3		
27552		3		27551
27581		3	22448,27331	
27591		1	Finish 120 Credit Hours	
27592		2	27591	

2. Elective Requirements (9 CHs)

Course Number	Course Title	Credit Hours	Prerequisite	Concurrent
23453	Virtual Reality Mobile Applications Development	3	11206	
27542		3	23454,23457	
27553		3	23454,23457	
27580		3		
27582		3	11323,27331	
27583		3	11323,27331	
27584		3	27331	
27585		3	11323,27331	
27586		3	23457,27331	
27587		3	11323,23454	
27588		3	27331	
27589		3	20234	
27594		3	23355	