



Study Plan for Bachelor's Degree in Networks and Information Security Engineering for year 2017-2018

The Bachelor's Degree in Networks and Information Security 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 (97 CHs)

Course Number	Course Title	Credit Hours	Prerequisite	Concurrent	Online
11206	Object Oriented Programming	3	11103		
11212	Data Structures and Introduction to Algorithms	3	11206,20134		
11240	Web Site Development Programming	3	11103		Blended
11253	Object Oriented Programming Lab	1		11206	Online
11323	Database Systems	3	11212		
11335	Operating Systems	3	11212		
11355	Operating Systems Lab	1		11335	Online
11437	Network Programming	3	11335,25341		
11465	Operating System Security	3	11335		
11466	Secure Software Development	3	11335		
11469	Secure Software Development Lab	1		11466	
20134	Discrete Mathematics (1)	3			Blended
20232	Engineering Mathematics(1)	3	20133		Blended
20234	Linear Algebra	3	20132		
20331	Engineering Mathematics(2)	3	20231,20232		Blended
20334	Applied Probability	3	20231		Blended
21232	Digital Electronics Fundamentals	3	22241,24223		
22241	Digital Logic Design	3			
22340	Microprocessors & Embedded Systems	3	21232,22241		
22348	Digital Logic Lab	1	22241		
22444	Computer Architecture & Organization (1)	3	22241		



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Course Number	Course Title	Credit Hours	Prerequisite	Concurrent	Online
22448	Embedded Systems Lab	1	22340		
23354	Data Communications	3	20232		
24223	Electric Circuits	3	20142		
25341	Telecommunications and Computer Networks	3	23354		
25347	Cryptography	3	20134		
25441	Wireless Networks	3	25341		
25443	Information and Networks Security Fundamentals	3	25341		
25444	Wireless Networks Security	3	25347,25441		
25445	Wireless Networks Lab	1	25441		
25446	Network Protocols	3	23354		
25447	Telecommunications and computer Networks Lab	1	25341		
25490	Practical Training	3	Finish 115 Credit Hours		
25542	Cyber Laws	3	25443		Blended
25543	Intrusion Detection & Network Forensics	3	25443		Blended
25545	Network Security Lab	1	25444		
25549	Ethical Hacking Techniques Lab	1		25543	
25581	Information Systems Security Assessment	1	25443		
25591	Senior Project (1)	1	25490, Finish 118 Credit Hours		Blended
25592	Senior Project (2)	2	25591		Blended

2. Elective Requirements (6 CHs)

Course Number	Course Title	Credit Hours	Prerequisite	Concurrent	Online
11467	Database Security	3	11323,25443		
11468	Secure Code Analysis	3	11466		
22581	Special Topics in Computer Engineering	3			
23575	Coding Algorithms	3	23354		
25541	Cloud Computing & Security	3	25446		Blended
25576	Network Performance Analysis	3	20334,25446		Blended
25582	Operation & Administration of Security Centers	3	25443,25446		Blended
25583	IT Audit	3	25443,25446		Blended
25584	Risk Management	3	20334,25443		Blended
25585	Multimedia Networks	3	25446		Blended
25586	Hardware Security	3	22444,25443		Blended
25587	Secure System Architecture	3	25443,25446		Blended
25593	Special Topics in Network Security Engineering (1)	3			Blended
25594	Special Topics in Network Security Engineering (2)	3			Blended
25595	Special Topics in Information Security (1)	3			Blended



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Course Number	Course Title	Credit Hours	Prerequisite	Concurrent	Online
25596	Special Topics in Information Security (2)	3			Blended