

Date Of Issue: 16/01/2024

### Study Plan for Bachelor'sDegree in Networks and Information Security Engineering for year 2017-2018

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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
11100	Computer Skills (Remedial)	0		
31019	Arabic Language(Remedial)	0		
31029	English Language (Remedial)	0		
31111	Arabic Language	3	31019	
31121	English Language	3		31029
31151	National Education	3		
31153	Introduction to Society, Technology and Environment Protection	0		
31251	Military Science	3		

### 2. Elective Requirements (15 CHs)

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

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

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

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

#### School Requirements (30 CHs)

1. Compulsory Requirements (30 CHs)



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Course Number	Course Title	Credit Hours	Prerequisite	Concurrent
11103	Structured Programming	3	11100	
11151	Structured ProgrammingLab	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	
20231	Calculus (3)	3	20133	
21218	Engineering Drawing Lab	1		
21219	Engineering Workshop	1		
24411	Engineering Ethics	1	Finish 99 Credit Hours	
32431	Engineering Economics	3	Finish 99 Credit Hours	

# Program Requirements (103 CHs)

# 1. Compulsory Requirements (97 CHs)

Course Number	Course Title	Credit Hours	Prerequisite	Concurrent
11206	Object Oriented Programming	3	11103	
11212	Data Structures and Introduction to Algorithms	3	11206,20134	
11240	Web Site Development Programming	3	11103	
11253	Object Oriented Programming Lab	1		11206
11323	Database Systems	3	11212	
11335	Operating Systems	3	11212	
11355	Operating Systems Lab	1		11335
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		
20232	Engineering Mathematics(1)	3	20133	
20234	Linear Algebra	3	20132	
20331	Engineering Mathematics(2)	3	20231,20232	
20334	Applied Probability	3	20231	
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	
22448	Embedded Systems Lab	1	22340	
23354	Data Communications	3	20232	
24223	Electric Circuits	3	20142	
25341	Telecommunications and Computer Networks	3	23354	



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Course Number	Course Title	Credit Hours	Prerequisite	Concurrent
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 99 Credit Hours	
25542	Cyber Laws	3	25443	
25543	Intrusion Detection & Network Forensics	3	25443	
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	Finish 120 Credit Hours	
25592	Senior Project (2)	2	25591	

# 2. Elective Requirements (6 CHs)

Course Number	Course Title	Credit Hours	Prerequisite	Concurrent
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	
25576	Network Performance Analysis	3	20334,25446	
25582	Operation & Administration of Security Centers	3	25443,25446	
25583	IT Audit	3	25443,25446	
25584	Risk Management	3	20334,25443	
25585	Multimedia Networks	3	25446	
25586	Hardware Security	3	22444,25443	
25587	Secure System Architecture	3	25443,25446	
25593	Special Topics in Network Security Engineering (1)	3		
25594	Special Topics in Network Security Engineering (2)	3		
25595	Special Topics in Information Security (1)	3		
25596	Special Topics in Information Security (2)	3		