Princess Sumaya University for Technology
جامعة الأميرة سمية للتكنولوجيا

Date Of Issue: 11/11/2026

Recommened Study Plan for Bachelor's Degree in Networks and Information Security Engineering for year 2023-2024

First Year

First Semester

Course No.	Course Title	Cr. Hrs.
20132	Calculus (1)	3
20140	Basic Concepts in Chemistry	1
20141	Physics (1)	3
21218	Engineering Drawing Lab	1
31122	English Language Communication Skills	3
31151	National Education	3
31160	Leadership and Societal Responsibility	0
	Total	**14**

Second Semester

Course No.	Course Title	Cr. Hrs.
11103	Structured Programming	3
11151	Structured Programming Lab	1
20133	Calculus (2)	3
20134	Discrete Mathematics (1)	3
20142	Physics (2)	3
20150	Physics Lab	1
31112	Arabic Language Communication Skills	3
	Total	**17**

Second Year

First Semester

Course No.	Course Title	Cr. Hrs.
11206	Object Oriented Programming	3
11253	Object Oriented Programming Lab	1
20231	Calculus (3)	3
20232	Engineering Mathematics(1)	3
21221	Electric Circuits (1)	3
22210	Programming Applications Lab	1
22241	Digital Logic Design	3
	Total	**17**

Second Semester

Course No.	Course Title	Cr. Hrs.
11212	Data Structures and Introduction to Algorithms	3
20200	Technical Writing and Communication Skills	3
20335	Applied Probability and Statistics	3
21219	Engineering Workshop	1
21222	Electric Circuits (2)	3
25330	Information Security Fundamentals	3
	Total	**16**

Third Year

First Semester

Course No.	Course Title	Cr. Hrs.
11323	Database Systems	3
21231	Electronics (1)	3
22348	Digital Logic Lab	1
22443	Computer Networks	3
25347	Cryptography	3
	Elective University Requirements	3
	Total	**16**

Second Semester

Course No.	Course Title	Cr. Hrs.
20234	Linear Algebra	3
22449	Computer Networks Lab	1
22460	Operating Systems and Security	3
22462	Operating Systems Lab	1
25441	Wireless Networks	3
27353	Signals and Systems	3
31251	Military Science	3
	Total	**17**

Fourth Year

First Semester

Course No.	Course Title	Cr. Hrs.
22442	Embedded Systems	3
22560	Network Programming and Applications	3
24411	Engineering Ethics	1
25420	Networks Security	3
25445	Wireless Networks Lab	1
31374	Life Skills	3
	Elective University Requirements	3
	Total	**17**

Second Semester

Course No.	Course Title	Cr. Hrs.
20333	Numerical Analysis	3
22448	Embedded Systems Lab	1
22570	Artificial Intelligence and Machine Learning	3
25430	Digital Forensics & Incident Response	3
25545	Network Security Lab	1
27355	Communication Principles	3
	Elective University Requirements	3
	Total	**17**

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Fifth Year

First Semester

Course No.	Course Title	Cr. Hrs.
25520	Penetration Testing	3
25521	Defense Security Lab	1
25560	Cybersecurity Frameworks and Standards	3
25591	Senior Project (1)	1
31254	Entrepreneurship and Innovation	3
	Elective Program Requirements	6
	Total	**17**

Second Semester

Course No.	Course Title	Cr. Hrs.
25549	Ethical Hacking Techniques Lab	1
25592	Senior Project (2)	2
27411	Engineering Economics	3
	Elective Program Requirements	3
	Total	**9**

Course No.	Course Title	Cr. Hrs.
	Total	

Course No.	Course Title	Cr. Hrs.
	Total	