



Recommended Study Plan for Bachelor's
Degree in Networks and Information Security
Engineering

First Year					
First Semester			Second Semester		
Course No.	Course Title	Cr. Hrs.	Course No.	Course Title	Cr. Hrs.
20132	Calculus (1)	3	11103	Structured Programming	3
20140	Basic Concepts in Chemistry	1	11151	Structured Programming Lab	1
20141	Physics (1)	3	20133	Calculus (2)	3
31122	English Language Communication Skills	3	20134	Discrete Mathematics (1)	3
31151	National Education	3	20142	Physics (2)	3
31160	Leadership and Societal Responsibility	0	20150	Physics Lab	1
		Total	31112	Arabic Language Communication Skills	3
		13			Total
					17

Second Year					
First Semester			Second Semester		
Course No.	Course Title	Cr. Hrs.	Course No.	Course Title	Cr. Hrs.
11206	Object Oriented Programming	3	11212	Data Structures and Introduction to Algorithms	3
11253	Object Oriented Programming Lab	1	20200	Technical Writing and Communication Skills	3
20231	Calculus (3)	3	20234	Linear Algebra	3
20232	Engineering Mathematics(1)	3	21219	Engineering Workshop	1
21218	Engineering Drawing Lab	1	21222	Electric Circuits (2)	3
21221	Electric Circuits (1)	3	21231	Electronics (1)	3
22241	Digital Logic Design	3			Total
		Total			16
		17			

Third Year					
First Semester			Second Semester		
Course No.	Course Title	Cr. Hrs.	Course No.	Course Title	Cr. Hrs.
11323	Database Systems	3	20333	Numerical Analysis	3
21332	Digital Electronics	3	20335	Applied Probability and Statistics	3
23351	Signals and Systems	3	22348	Digital Logic Lab	1
23356	Programming Applications in Signals & Systems Lab	1	23355	Communication Principles	3
25330	Information Security Fundamentals	3	25347	Cryptography	3
	Elective University Requirements	3	31251	Military Science	3
		Total			Total
		16			16

Fourth Year					
First Semester			Second Semester		
Course No.	Course Title	Cr. Hrs.	Course No.	Course Title	Cr. Hrs.
22442	Embedded Systems	3	22448	Embedded Systems Lab	1
22443	Computer Networks	3	22449	Computer Networks Lab	1
22460	Operating Systems and Security	3	22560	Network Programming and Applications	3
22461	Operating Systems and Security Lab	1	24471	Automatic Control	3
24411	Engineering Ethics	1	24479	Automatic Control Lab	1
31254	Entrepreneurship and Innovation	3	25420	Networks Security	3
	Elective University Requirements	3	25441	Wireless Networks	3
		Total	25445	Wireless Networks Lab	1
		17			Total
					16



Fifth Year					
First Semester			Second Semester		
Course No.	Course Title	Cr. Hrs.	Course No.	Course Title	Cr. Hrs.
25520	Penetration Testing	3	23411	Engineering Economics	3
25545	Network Security Lab	1	25543	Intrusion Detection & Network Forensics	3
25591	Senior Project (1)	1	25549	Ethical Hacking Techniques Lab	1
31374	Life Skills	3	25592	Senior Project (2)	2
	Elective University Requirements	3		Elective Program Requirements	3
	Elective Program Requirements	6			
				Total	12
		Total			
		17			