Name of the course	Code	Term	T+P	Credit	ECTS
Network And Data Security			3+0	3	4

Prerequisites and co-requisities	

Language of the course	Turkish
Type of the course	Technical Elective
Course Coordinator	
Name of Lecturers	
Assistants	
Aim and goals of the course	To give information about data and network security systems; the process of security system design; security risk analysis; analysis and designing of data and network security.
Course Learning Outcomes	**Upon successful completion of the course, the students will be able to :** 1. Define concepts of Network and information security. 2. Define design process of security system and analyse security risk. 3. Define cryptosystems and their applications.
Contents of the course	Introduction / Security Requirements and Grades / Communication in Network Systems / Topology Security / Cryptosystems and Symmetric Encryption / Decryption / Open Keyed Cryptosystems and Digital Signature / Firewall / Penetration Recognition Systems / Biometric Security Systems / Virtual Private Networks / Network Usage Policie

Weeks	Subjects
1	Introduction to Data and Network Security
2	Safety Requirements
3	Safety Ratings
4	Network Congestion
5	Topology Security
6	Cryptosystems and Symmetric Encryption / Decryption
7	Open Keyed Cryptosystems
8	MIDTERM
9	Digital Signature
10	The firewall
11	Infusion Recognition Systems
12	Biometric Security Systems
13	Virtual Private Networks
14	Network Usage Policies
15	FINAL EXAM

General Qualifications
In evaluations, it is important that students can understand network and data security issues and apply them.
References
1. W. Stallings,"Network Security Essentials" P.Hall 2000 ,ISBN0-13016-093-8 2. W. Stallings, "Cryptography and Network Security",P.Hall 1999 ,ISBN0-0-13-869017-0 3. Chris Brenton., "Mastering Network Security", ISBN: 0-7821-2343-0
Evaluation
Midterm Exam: % 40, Final Exam: % 60. Project or homework evaluations can be made at the beginning of the semester.