Course Code	TKIT163214
Course Name	Computer Network Security
Course Instructors	-
Course Type	Selected Elective
Course Classification	Engineering Topics
Credit / Contact Hour per Week	3 / 150 minutes per Week
Course Description	Learn the concepts and terminology of computer network security system, System Security Model, Cryptography Algorithm
Prerequisites Courses	Computer Network (TKIT163101)
Covered Student Outcome	**Fundamental Engineering Knowledge (a)** **Modern Tools Utilization (e)** **Knowledge of Contemporary Issues (f)**

Learning Outcome

		Study Program Student Outcome
No	Learning Outcome	SO (a) – SO (k)
1.	Students are able to develop mobile computing based applications	Modern Tools Utilization
2.	Students are able to plan network security strategy strategy	Fundamental Engineering Knowledge
3.	Students are able to implement cryptographic algorithms	Modern Tools Utilization
4.	Students are able to implement authentication mechanisms, privacy, digital signatures on network security	Knowledge of Contemporary Issues
5	Students are able to recognize and implement the public key infrastructure	Knowledge of Contemporary Issues
6	Students are able to design network security system strategy using Firewalls, VPN	Modern Tools Utilization

Topic	1. Introduction to Computer Network Security 2. Cryptography
Direct Asessment	

Direct Asessment Plan	**Measured Learning Outcome**
Mid-term exam	LO1, LO2, LO3
Final Exam	LO4, LO5, LO6

Indirect Assesment	Questionnaire (EDOM)
References	[1] Michael Pastore, 2003, Security+, StudyGuide, Sybex. [2] Man Young Rhee, 2003, Internet Security, Cryptographic Priciples Algorithms and Protocols, Wiley [3] Stephen Thomas , 2000, SSL and TLS Essential Securing the Web, John Wiley and Sons