

TIF21-32-43

Computer Network Security Keamanan Jaringan Komputer

BASIC INFORMATION

Course Credit	3 / 150 minutes per Week
Course Type	Selected Elective
Course Classification	Engineering Topics
Prerequisites	Computer Network (TIF212246)

STUDENT AND LEARNING OUTCOMES

Covered Student Outcomes

Fundamental Engineering Knowledge (a) Knowledge of Contemporary Issues (f)
Modern Tools Utilization (e)

Learning Outcomes

- LO1** Students are able to develop mobile computing based applications
- LO2** Students are able to plan network security strategy strategy
- LO3** Students are able to implement cryptographic algorithms
- LO4** Students are able to implement authentication mechanisms, privacy, digital signatures on network security
- LO5** Students are able to recognize and implement the public key infrastructure
- LO6** Students are able to design network security system strategy using Firewalls, VPN

COURSE DESCRIPTION

Learn the concepts and terminology of computer network security system, System Security Model, Cryptography Algorithm

TOPICS

1. Introduction to Computer Network Security
2. Cryptography

REFERENCES

- [1] Michael Pastore, 2003, Security+, StudyGuide, Sybex.
- [2] Man Young Rhee, 2003, Internet Security, Cryptographic Principles Algorithms and Protocols, Wiley
- [3] Stephen Thomas , 2000, SSL and TLS Essential Securing the Web, John Wiley and Sons