Course title: Network Security

Lecturer(s): Tešendić D. Danijela, Surla I. Dušan

Status: obligatory

ECTS: 7

Requirements: None

Learning objectives

Teaching students about basic functions and design of computer networks.

Learning outcome

Expected:

Understanding of basic functions, technologies and architectures of modern computer networks.

Desired:

Adopting skills required for administration and securing computer networks and several Internet services.

Syllabus

Theory

Basic concepts and elements of computer network security. Cryptography. Basic techniques for providing network security. Network systems security. Examples of cryptographic systems. Verification of techniques for providing network security.

Practice

Recommended literature

Stallings, W., *Network Security Essentials: Applications and Standards*, Prentice Hall, 2006

Weekly teaching load	Lectures: 3	Student research: 0

Teaching methodology

Classical teaching methods using video beam are applied during lectures. Some lectures are performed in specialized computer laboratory using simulations packets for computer networks as well as computer network equipment. Student has to work on individual practical assignment.

Grading method (maximal number of points 100)

Seminar paper 60 points, Oral examination 40 points