

Title Security in Communication Networks	Code POZ04WTS2ICE25
Field Electronics and Telecommunications	Year / Semester 2 / autumn
Specialty Information Transport Networks	Course elective
Hours Lectures: 2 Classes: Laboratory: 2 Projects / seminars:	Number of credits 5

Lecturer:

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Status of the course in the study program:

Elective course for students of Electronics and Telecommunications, specialization ICT.

Objectives of the course:

To provide students with theoretical and practical knowledge and understanding of security in communication (computer) network. To prepare students to administration security network.

Course description:

Lectures: Basic information about network security. Security of network devices. Firewalls. Intrusion Detection Systems. Authentication, Authorization and Accounting in secure network. Virtual Private Networks. Cryptography. Security in local networks.
Laboratory: network devices (routers and switches) configuration

Initial knowledge:

Basic knowledge of protocols and computer networks.

Teaching methods:

Lectures supported by multimedia presentations.

Assessment methods:

Written exam.

Bibliography:

1. Network Security: Private Communication in a Public World (2nd Edition) Charlie Kaufman, Radia Perlman, Mike Speciner,
2. Implementing Cisco IOS Network Security (IINS): (CCNA Security exam 640-553) (Authorized Self-Study Guide) Catherine Paquet, Cisco Press, 2009
3. si s l p l e K k n r s C e r e e p .