Title Data Security		Code 1010331441010330639	
Field		Year / Semester	
Computer Science		2/4	ŀ
Specialty		Course	
-		core	)
Hours		Number of credits	
Lectures: 2 Classes: - Laboratory: 1 Projects / seminar	s: -	5	5
		Language	
		polish	

## Lecturer:

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## Faculty:

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## Status of the course in the study program:

- Obligatory course at the Faculty of Electrical Engineering, field of study Computer Science

# Assumptions and objectives of the course:

-Presentation of practical problems dealing with data security.

#### Contents of the course (course description):

-Threats to data security. Methods of data protection. Antivirus protection, RAIDs, UPSs, steganography. Cryptographic algorithms and protocols for data protection: ciphers, hash functions, digital signature, cryptographic keys managemant. Cryptographic techniques: confidentiality of data, data integrity, authenticatiion of data and subjects (users), nonrepudiation, access control. Virtual Private Networks. Firewalls. Intrusion Detection Systems. Intrusion Prevention Systems.

## Introductory courses and the required pre-knowledge:

- Mathematics and computational complexity.

## Courses form and teaching methods:

- Lecture, laboratory.

# Form and terms of complete the course - requirements and assessment methods:

-Written or/and oral examination based on lecture, laboratory participation.

## **Basic Bibliography:**

Additional Bibliography: