| Title Structure of computers and protection data (SKiOD) | Code 1010401231010430785 |
|---|-----------------------------|
| Field TECHNICAL PHYSICS | Year / Semester 2 / 3 |
| Specialty | Course |
| - | core |
| Hours | Number of credits |
| Lectures: 1 Classes: - Laboratory: 1 Projects / seminars: - | 2 |
| | Language |
| | polish |

Lecturer:

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Faculty:

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Status of the course in the study program:

Core course of the study for Technical Physics, Faculty of Technical Physics.

Assumptions and objectives of the course:

Introduction of listeners with structure and the building of present computers

is the aim of the object. The content of the lecture hugs indispensable theoretical bases, the building

of the executive individual of the computer, basic information about the organization of the co-operation with external devices and the structure of the computer. The performance of basic threats is also the aim of the lecture, leading to loss or undesirable disclosing given and applied mechanisms and the methods

of the protection havings this to prevent.

Contents of the course (course description):

Basic notions from the range of computer science. Functional model and

the structure of the computer. The classification of computer equipment. The configuration of the computer system. The principle of the working. The device of the entry/exit. The review of solutions and configurational possibilities. Software. Legal aspects of using the software. The theory of the protection

of information, the protection of information as the man reaction, the protection of information as the area of good practices, information as value, the attributes of information, the susceptibility of information and her carriers, dangers threatening the ?information". The safety of computer systems, the basic problems

of the safety, the elements of cryptography, the safety of operating systems, the safety of the network infrastructure, the safety of usable applications and services, management the safety. The processes

of the management the safety of information. Secret information, the definition of secret information and their classifications, making accessible secret information, the device of the class ?tempest?.

Introductory courses and the required pre-knowledge:

Basic knowledge of computer science.

Courses form and teaching methods:

Lecture helped multimedia introductions, laboratory practices with utilization of computers.

Form and terms of complete the course - requirements and assessment methods: Written test examination.

Basic Bibliography:

- 1. P. Metzger, Anatomia PC, Wydanie XI, Helion, 2007
- 2. A. Białas, Bezpieczeństwo informacji i usług w nowoczesnej instytucji i firmie, WNT, Warszawa 2006
- 3. S. Anderson, Inżynieria zabezpieczeń, seria TAO, WNT, Warszawa 2005

Additional Bibliography:

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