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| Name of the module/subject Information security in Internet Field of study | DESCRIPTION FORM | Code 1010332521010334336 | |
|--|--|----------------------------------|--|
| Information security in Internet | | | |
| Field of study | | Code 1010332521010334336 | |
| | Profile of study (general academic, practical) | Year /Semester | |
| Information Engineering (brak) | | 1/2 | |
| Elective path/specialty | Subject offered in: Polish Course (compulsory, elective) obligatory | | |
| Cycle of study: | Form of study (full-time,part-time) | | |
| Second-cycle studies | full-time | | |
| No. of hours Lecture: 30 Classes: - Laboratory: 1 | 5 Project/comingra: | No. of credits | |
| Lecture: 30 Classes: - Laboratory: 1: Status of the course in the study program (Basic, major, other) | Project/seminars: (university-wide, from another find | | |
| (brak) | brak) | | |
| Education areas and fields of science and art | | ECTS distribution (number and %) | |
| technical sciences | 5 100% | | |
| Responsible for subject / lecturer: dr inż. Tomasz Bilski email: tomasz.bilski@put.poznan.pl tel. 061 66 53 554 Faculty of Electrical Engineering ul. Piotrowo 3A 60-965 Poznań | | | |
| Prerequisites in terms of knowledge, skills ar | nd social competencies: | | |
| 1 Knowledge Student has in-depth knowledge in the field of data security. He/she has in-depth knowledge of cryptography and basic in cryptanalysis. | | | |
| 2 Skills Student can use advanced tool | Student can use advanced tools and information technologies. | | |
| competencies computer science and other as | Student understands the need to provide public information concerning the achievements in computer science and other aspects of business-computing engineer; he/she shall endeavour to provide information in a way understandable by presenting different points of view. | | |
| 4 11 4 64 | | | |
| Assumptions and objectives of the course: | | | |
| Assumptions and objectives of the course: Presentation of cryptographic protocols on the Internet. | | | |
| | e educational results for | a field of study | |

- 1. Student has knowledge concerning IT, their applications and related problems. $[K_W06]$
- 2. Student has knowledge of the trends and the most important new developments in the field of computer science. [K_W14]

Skills:

- 1. Student can obtain information from literature, databases, and other sources; can integrate the information obtained, their interpretation and critical evaluation, and also draw conclusions and formulate and fully justify the feedback. [K_U01]
- 2. Student is able to propose and justify improvements to existing solutions. [K_U12]

Social competencies:

1. Student is able to think and act in a way that is creative and enterprising - [K_K01]

Assessment methods of study outcomes

Written examination based on lecture. Laboratory: written test.

Course description

Standardization, TLS, IPsec (ESP, AH, ISAKMP, IKE), LDAP and OSCP, certification policy, cryptographic algorithms in access networks (GSM, UMTS, IEEE 802.11i).

Laboratory: SSL, TLS, S-HTTP protocols; Digital certificate; Public cryptographic system? based on RSA, Communication security? Secure Shell; Cryptographic algorithms in radio access networks

Faculty of Electrical Engineering

Basic bibliography:

1. Anderson R., Security Engineering, [online] http://www.cl.cam.ac.uk/~rja14/book.html

Additional bibliography:

- 1. Standards (ISO, IEEE)
- 2. RFC

Result of average student's workload

| Activity | Time (working hours) |
|---|----------------------|
| 1. Lecture | 30 |
| 2. Laboratory | 15 |
| 3. Preparation to the laboratory | 15 |
| 4. Realization of laboratory reports | 10 |
| 5. Preparation to tests | 10 |
| 6. Preparation to the examination | 35 |
| 7. Participation in the consultations and examination | 10 |

Student's workload

| Source of workload | hours | ECTS | |
|----------------------|-------|------|--|
| Total workload | 125 | 5 | |
| Contact hours | 50 | 2 | |
| Practical activities | 25 | 1 | |