POZNAN UNIVERSITY OF TECHNOLOGY



EUROPEAN CREDIT TRANSFER AND ACCUMULATION SYSTEM (ECTS)

pl. M. Skłodowskiej-Curie 5, 60-965 Poznań

COURSE DESCRIPTION CARD - SYLLABUS

Course name

Computer Science

Course

Field of study

Safety Engineering

Area of study (specialization)

Level of study

First-cycle studies

Form of study

full-time

Year/Semester

1/1

Profile of study

general academic Course offered in

Polish

Requirements

Number of hours

Lecture Laboratory classes Other (e.g. online)

15 15

Tutorials Projects/seminars

Number of credit points

2

Lecturers

Responsible for the course/lecturer:

Responsible for the course/lecturer:

Krzysztof Hankiewicz, Ph.D. Eng.

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Prerequisites

Student has knowledge of the subjects of Information Technology.

Student can use previously learned applications.

Student is active and participate in the discussion on a given topic.

Course objective

The aim of the course is to prepare for using application programs as well as learning information useful in the specification, implementation and operation of IT systems.

Course-related learning outcomes

Knowledge

- 1. He knows contemporary trends and best practices in information and IT techniques [P6S_WK_03].
- 2. He knows the basic methods, techniques, tools and materials used in preparation for conducting scientific research and solving simple engineering tasks with the use of information technology, information protection and computer support [P6S WK 04].

Skills

- 1. He can acquire, integrate, interpret information from literature, databases and other properly selected sources [P6S_UO_01].
- 2. Can properly select sources and information derived from them, make an evaluation, critical analysis and synthesis of this information [P6S_UW_01].
- 3. Can use various techniques in order to communicate in a professional environment and in other environments [P6S_UW_02].
- 4. Is able to identify changes in requirements, standards, regulations and technical progress and the reality of the labor market, and on their basis define the need for supplementing knowledge [P6S_UU_01].

Social competences

- 1. Is aware of the recognition of the importance of knowledge in solving problems in the field of safety engineering and continuous improvement [P6S_KK_02].
- 2. Is aware of the understanding of non-technical aspects and effects of engineering activities, including its impact on the environment and the related responsibility for decisions made [P6S_KK_03].
- 3. He can initiate activities related to the formulation and transfer of information and cooperation in the society in the field of security engineering [P6S_KO_02].

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

The knowledge presented in the lecture is verified by assessing the students' activity during the lectures

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and one 45-minute colloquium carried out during the last lecture. The test consists of 5-6 open questions. Final issues on the basis of which questions are prepared will be given to students during lectures.

Skills achieved in the laboratory are verified based on the tasks performed during the class and a test verifying the ability to create a program algorithm.

Programme content

The main presented issues include: history of computer science, the basics of information technology, operating systems, the Windows operating system, network components and structure, computer network services, history of Internet, Web services, essential tools of MS Office, computer graphics, word processing, spreadsheets, collecting and processing of data.

Teaching methods

- 1. Lecture: multimedia presentation, illustrated with examples.
- 2. Laboratory exercises: practical tasks performed by students based on the presented instructions.

Bibliography

Basic

- 1. Silberschatz A., Galvin P.B., Gagne G., Podstawy systemów operacyjnych, Wydawnictwa Naukowo-Techniczne WNT, 2006
- 2. Krysiak K., Sieci komputerowe. Kompendium, Helion, 2005
- 3. Murray K., Microsoft Word 2010 PL. Praktyczne podejście, Helion, 2011
- 4. Masłowski K., Excel 2010 PL, Helion, 2010

Additional

1. Poradnik Webmastera http://webmaster.helion.pl, Paweł Wimmer

Breakdown of average student's workload

	Hours	ECTS
Total workload	60	2
Classes requiring direct contact with the teacher	30	1
Student's own work (literature studies, preparation for	30	1
laboratory classes, preparation for tests)		