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	Year/Semester
Safety Engineering	1/1
Area of study (specialization)	Profile of study
	general academic
Level of study	Course offered in
First-cycle studies	Polish
Form of study	Requirements
full-time	

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:

Krzysztof Hankiewicz, Ph.D. Eng.

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Faculty of Engineering Management

2 Jacka Rychlewskiego Str.

60-965 Poznan

Responsible for the course/lecturer:

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.

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Course-related learning outcomes

Knowledge

1. Student knows the current trends and best practices in information technology.

2. Student knows the basic techniques and tools used to solve simple engineering tasks using information technology.

Skills

1. Students can find, integrate, interpret information from literature, databases and other selected sources.

2. Student know how to use the theoretical knowledge to describe and analyse of the causes and processes and phenomena of social (cultural, political, legal, economic) and is able to formulate their own opinions, and choose the critical data and methods of analysis.

3. The student has the ability to self-learning and understands it.

4. Student is able to use information and communication technology for the tasks of typical engineering activities.

Social competences

1. Student understands the need and knows the possibilities of lifelong learning.

2. Student can work in team.

3. Student understands the need to provide information and opinions on the achievements of technology and other aspects of engineering.

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 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

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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 laboratory classes, preparation for tests)	30	1