



COURSE DESCRIPTION CARD - SYLLABUS

Course name

Information technology

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

15

Laboratory classes

15

Other (e.g. online)

Tutorials

Projects/seminars

Number of credit points

2

Lecturers

Responsible for the course/lecturer:

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Responsible for the course/lecturer:

Prerequisites

The student has basic computer science knowledge of the high school curriculum

Student can operate basic computer programmes

Course objective

The aim of the course is to give basic information in the field of computer science and to prepare the student to use a computer at the level of the European Computer Driving Licence (ECDL)



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 acquire, 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. 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 knows the importance and understands non-technical aspects and effects of engineering activities.
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 two tests of skills to use the basic tools of MS Office.

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 laboratory classes, preparation for tests)	30	1