STUDY MODULE DESCRIPTION FORM

Name of the module/subject **Information Engineering**		Code **1010601211010641272**

Field of study **Mechanical Engineering**	Profile of study (general academic, practical) **(brak)**	Year /Semester **1 / 1**

Elective path/specialty **-**	Subject offered in: **Polish**	Course (compulsory, elective) **obligatory**

Cycle of study: **First-cycle studies**	Form of study (full-time,part-time) **full-time**

No. of hours				No. of credits **2**
Lecture: **2** Classes: **-** Laboratory: **-** Project/seminars: **-**				

Status of the course in the study program (Basic, major, other) **(brak)**	(university-wide, from another field) **(brak)**

Education areas and fields of science and art **technical sciences** **Technical sciences**	ECTS distribution (number and %**)** **2 100%** **2 100%**

Responsible for subject / lecturer:

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Prerequisites in terms of knowledge, skills and social competencies:

1	**Knowledge**	The basic body of knowledge from the construction and principles of operation of computers, peripherals and software configuration.
2	**Skills**	Ability to use personal computers and their hardware configuration.
3	**Social competencies**	Teamwork skills, logical and analytical problem solving, self-reliance and the ability to make rational decisions.

Assumptions and objectives of the course:

1. Overview of issues in information technology, to the extent specified by the content of the curriculum appropriate for the field of study.

2. Developing students' skills:

- Operating and configuring personal computers,

- Basic and specialized operating software

- The use of computer techniques supporting engineering,

- Pursue their own interests.

3. Development of students' teamwork skills.

Study outcomes and reference to the educational results for a field of study

Knowledge:

1. Has an elementary knowledge of the fundamentals of computer science - [K1A_W13]

Skills:

1. Is able to obtain information from the literature, internet, databases and other sources. - [K1A_U03]

2. Is able to prepare and submit a short, verbal and multimedia presentation dedicated to the results of an engineering task. - [K1A_U05]

3. Is able to use office software for word processing of technical information in models and tables, technical and economic calculations using a spreadsheet and keeping a simple relational database. - [K1A_U11]

Social competencies:

1. Understands the need and knows the possibilities of lifelong learning. - [K1A_K01]

2. Is aware of and understands the importance and impact of non-technical aspects of mechanical engineering activities and its impact on the environment and responsibility for own decisions. - [K1A_K02]

3. Has a sense of responsibility for one?s own work and is willing to comply with the principles of teamwork and taking responsibility for collaborative tasks. - [K1A_K04]

Assessment methods of study outcomes

Multiple-choice test

Course description

Presentation of the construction of computers, basic and advanced office software used at the stage of study and subsequent work, to present basic and advanced information in the text processing, engineering data, engineering calculations, obtaining and processing the static graphics and mobility, the basics of web development. Indication of the direction of self-education in the field of computer science in relation to subsequent academic classes. Software: word processing, spreadsheets, graphics editors, editors, web, database, software useful for engineering calculations.

Basic bibliography:

1. Tłum. Krzysztof Zdrojewski, Sławomir Furmanek: Akademia sieci Cisco. HP IT. Technologia informacyjna. Cz. 1 i 2, Wyd. MIKOM, Warszawa, 2005 r.

2. . M.M. Sysło: "Informatyka i technologia informacyjna w szkole", Instytut Informatyki Uniwersytetu Wrocławskiego i Stowarzyszenie Nauczycieli Technologii Informacyjnej, Wrocław, 2004r.

3. Wrotek: Informatyka Europejczyka. Technologia informacyjna, Wyd. Helion, 2006,

4. G. Hermanowska, W. Hermanowski: Technologia informacyjna. Podręcznik. Liceum. Technikum." Wydawnictwo OPERON

Additional bibliography:

1. Steve Schwartz, Po prostu Office 2010, Wyd. Helion 2011

2. Elizabeth Castro, Po prostu HTML 4, Wyd. Helion 2003

Result of average student's workload

Activity	Time (working hours)
1. Lectures	30
2. Own work with the material of the lecture	10
3. Consultation	4
4. Preparing to the exam	10
5. Exam	2

Student's workload

Source of workload	hours	ECTS
Total workload	56	2
Contact hours	36	1
Practical activities	0	0