	STUDY MODULE D	ESCRIPTION FORM		
Name of the module/subject Introduction to Com	puter Science		Code 010601211010631274	
Field of study		Profile of study (general academic, practical)	Year /Semester	
Transport		(brak)	1/1	
Elective path/specialty	-	Subject offered in: Polish	Course (compulsory, elective) obligatory	
Cycle of study:		Form of study (full-time,part-time)		
First-cycle studies		full-time		
No. of hours			No. of credits	
Lecture: 1 Classes: - Laboratory: - Project/seminars:			· 1	
Status of the course in the study program (Basic, major, other) (university-wide, from another field			ld)	
	(brak)	()	(brak)	
Education areas and fields of science and art			ECTS distribution (number and %)	
technical sciences			100 100%	
Responsible for sub	ject / lecturer:		1	
dr hab. inż. Andrzej Frąc				
email: andrzej.frackowia				
tel. 61 6652779				
Faculty of Working Mach	ines and Transportation			
Poznań, Piotrowo 3A				
Prerequisites in terr	ns of knowledge, skills an	d social competencies:		
1 Knowledge	The student possesses basic knowledge of the construction of computer, operating system and the Internet.			
2 Skills	The student is able to use the software for office work (word processor, spreadsheet), and the internet.			
	The student is able to deal with specific problems that arise when using the computer.			
3	Students can cooperate in a group, taking the different roles.			
Social	The student is able to define priorities in solving the tasks posed before her/him.			
competencies	The student shows self-reliance in solving problems, acquiring and improving her/his			
Assumptions and ob	knowledge and skills.			
•	provide students with information	concerning the construction of co	mouter operating systems	
and use of the Internet and perform calculations using a	selected software. Students gain k a spreadsheet and create multimed or scientific and technical calculati	nowledge and skills to: create do	cuments in a word processor,	
Study outco	omes and reference to the	educational results for a	a field of study	
Knowledge:			-	
-	the field of informatics, is familiar	with operating systems, program	ming languages at a basic	
level, information technolog preparation of reports and p	y, multimedia technology, graphics	s, animation, databases, compute	r methods to support the	
Skills:				
	ion from the literature, internet, dat and learn from them, create and ju		sh and English. Can integrate	
 Has the ability to self-educate using modern teaching tools such as remote lectures, webpages and databases, educations software, electronic editions [K1A_U06] 				
3. Is able to use in practice	office suites for solving tasks and using a spreadsheet and keeping a			
Social competencies				

1. Understands the need and knows the possibilities of lifelong learning, knows the need for acquiring new knowledge for professional development. - [K1A_K01]

2. Is able to think and act in an entrepreneurial manner, make decisions, work for the development of the employer and the society. - [K1A_K07]

3. Is aware of the transfer of knowledge to society, takes steps to ensure that the information is understandable. - [K1A_K08]

Assessment methods of study outcomes

written exam of lectures

Course description

Construction of a computer. Operating Systems. Basic functions of a word processor. The text formatting, creating styles, paragraphs, headers and footers, use of the equation editor. Creating simple drawings, importing images from other graphics programs. Advanced text editor: the Mail Merge, creating bibliographies, reviewed text. Creating tables and graphs using a spreadsheet. The processing of numerical data, working with multiple spreadsheets. Creating a multimedia presentation in Power Point or similar. Creating web pages. Basics of HTML. Making scientific and engineering calculations, modeling, simulation and data analysis, graphical visualization of data and calculation results in one of the mathematical environments: Matlab, Mathematica, or Mathcad.

Basic bibliography:

1. Węglarz Waldemar, Żarowska-Mazur Alicja, Office 2010. Praktyczne porady , Wydawnictwo Naukowe PWN, 2011

- 2. Katherine Murray, Microsoft Office 2010 PL. Praktyczne podejście, Helion, 2011
- 3. Laura Lemay, HTML i XHTML dla każdego, Helion, 2004
- 4. Rudra Pratap, MATLAB 7 dla naukowców i inżynierów, Wydawnictwo Naukowe PWN, 2010

Additional bibliography:

Joan Lambert, Joyce Cox, Ourtis Frye, Microsoft Office 2010 Dla Użytkowników Domowych I Uczniów Krok Po Kroku, 2012
 Bryan Pfaffenberger, Steven M. Schafer, Chuck White, Bill Karow, HTML, XHTML i CSS. Biblia, Helion 2005

Result of average stu	dent's workload	
Activity	Time (working hours)	
1. Participation in the lecture	15	
2. Consolidation of the lecture content	5	
3. Consultation	5	
4. Preparation for the pass	10	
5. Participation in the pass	1	
Student's wo	orkload	
Source of workload	hours	ECTS
Total workload	36	1
Contact hours	26	1
Practical activities	0	0