

<b>STUDY MODULE DESCRIPTION FORM</b>		
Name of the module/subject <b>Computer Science 1</b>		Code <b>1011104111011160140</b>
Field of study <b>Safety Engineering - Part-time studies - First-</b>	Profile of study (general academic, practical) <b>(brak)</b>	Year /Semester <b>1 / 1</b>
Elective path/specialty <b>-</b>	Subject offered in: <b>Polish</b>	Course (compulsory, elective) <b>obligatory</b>
Cycle of study: <b>First-cycle studies</b>	Form of study (full-time, part-time) <b>part-time</b>	
No. of hours Lecture: - Classes: - Laboratory: <b>10</b> Project/seminars: -		No. of credits <b>3</b>
Status of the course in the study program (Basic, major, other) <b>(brak)</b>		(university-wide, from another field) <b>(brak)</b>
Education areas and fields of science and art <b>technical sciences</b> <b>Technical sciences</b>		ECTS distribution (number and %) <b>3 100%</b> <b>3 100%</b>
<b>Responsible for subject / lecturer:</b>  dr inż. Krzysztof Hankiewicz email: krzysztof.hankiewicz@put.poznan.pl tel. 616653408 Faculty of Engineering Management ul. Strzelecka 11 60-965 Poznań		
<b>Prerequisites in terms of knowledge, skills and social competencies:</b>		
1	<b>Knowledge</b>	Student has knowledge of the subjects of Information Technology
2	<b>Skills</b>	Student can use previously learned applications
3	<b>Social competencies</b>	Student is active and willing to participate in the discussion on a given topic
<b>Assumptions and objectives of the course:</b> The aim of the course is to prepare for using application programs. Acquiring the specification of useful information, implementation and operation of information systems		
<b>Study outcomes and reference to the educational results for a field of study</b>		
<b>Knowledge:</b>		
1. Student knows the current trends and best practices in information technology - [K1A_W16]		
2. Student knows the basic techniques and tools used to solve simple engineering tasks using information technology - [K1A_W25]		
<b>Skills:</b>		
1. Students can acquire, integrate, interpret information from literature, databases and other selected sources - [K1A_U01]		
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 - [K1A_U02]		
3. The student has the ability to self-learning and understands it - [K1A_U05]		
4. Student is able to use information and communication technology for the tasks of typical engineering activities - [K1A_U07]		
<b>Social competencies:</b>		
1. Student understands the need and knows the possibilities of lifelong learning - [K1A_K01]		
2. Student can work in team - [K1A_K02]		
3. Student understands the need to provide information and opinions on the achievements of technology and other aspects of engineering - [K1A_K07]		

<b>Assessment methods of study outcomes</b>		
Formative assessment: computer applications tests		
Collective assessment: the average of marks given		
<b>Course description</b>		
The course covers the following topics - Lecture: Disciplines of computer sciences. The concept of the algorithm and calculation. Computer Architecture and the main trends of its development. Structured programming languages ??and notations algorithms. Introduction to object-oriented programming with the help of tools to quickly generate an application (Visual Basic). The layers of the operating system and network software. Issues of computer networks, TCP / IP and the Internet. Architecture of basic Internet services. New information technologies and data protection. Laboratory: The ability to work in Windows and using Internet services. Creating simple programs in Visual Basic.		
<b>Basic bibliography:</b>		
1. Strona internetowa z materiałami pomocniczymi do ćwiczeń laboratoryjnych 2. Visual Basic. Podręcznik programisty dokumentacja Microsoft, lub inny podręcznik podstawowy		
<b>Additional bibliography:</b>		
1. Harel D., Rzecz o istocie informatyki. Algorytmika, WNT, Warszawa, 2000		
<b>Result of average student's workload</b>		
<b>Activity</b>	<b>Time (working hours)</b>	
1. Participation in laboratory classes	30	
2. Preparation for laboratory classes	28	
3. Discussion of exercises problems	2	
<b>Student's workload</b>		
<b>Source of workload</b>	<b>hours</b>	<b>ECTS</b>
Total workload	60	3
Contact hours	32	3
Practical activities	30	3