Faculty of Engineering Management

		STUDY MODULE D	ESCRIPTION FORM	
	the module/subject			Code 1011101221011160390
Field of study			Profile of study (general academic, practical)	Year /Semester
Safety Engineering - Full-time studies - First-			(brak)	1/2
Elective path/specialty			Subject offered in: Polish	Course (compulsory, elective obligatory
Cycle of	study:		Form of study (full-time,part-time)	
	First-cyc	cle studies	full-time	
No. of h	ours			No. of credits
Lectur	e: 15 Classes	s: - Laboratory: 15	Project/seminars:	- 2
Status o	f the course in the study	program (Basic, major, other)	(university-wide, from another fie	eld)
		brak)		
Education	on areas and fields of sci	ECTS distribution (number and %)		
techn	ical sciences	2 100%		
dr in ema tel. (Facu	onsible for subject. Krzysztof Hankiew il: krzysztof.hankiewie 616653408 ulty of Engineering Matrzelecka 11 60-965 l	icz cz@put.poznan.pl anagement		
Prere	quisites in term	s of knowledge, skills an	d social competencies:	
1	Knowledge	Student has knowledge of the subjects of Information Technology		
2	Skills	Student can use previously learned applications		
3	Social competencies	Student is active and willing to participate in the discussion on a given topic		
Assu	mptions and obj	ectives of the course:		
The ain	n of the course is to p	repare for using application progra	ams. Acquiring the specification	of useful information,

The aim of the course is to prepare for using application programs. Acquiring the specification of useful information, implementation and operation of information systems

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

Knowledge:

- 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]

Skills:

- 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]

Social competencies:

- 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]

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Assessment methods of study outcomes

Formative assessment:

- a) within the laboratory classes on the basis of using computer applications tests
- b) within the lectures: on the basis of written assignments relating to the material covered during lectures.

Collective assessment:

- a) within the laboratory classes: the average of marks given
- b) within the lectures: the average of formative marks

Course description

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.

Basic bibliography:

- 1. Stallings W., Organizacja i architektura systemu komputerowego, WNT, Warszawa, 2000
- 2. Harel D., Rzecz o istocie informatyki. Algorytmika, WNT, Warszawa, 2000
- 3. Web pages with laboratory execises

Additional bibliography:

1. Visual Basic. Podręcznik programisty dokumentacja Microsoft, lub inny podręcznik podstawowy

Result of average student's workload

Activity	Time (working hours)
1. Participation in lectures	15
2. Participation in laboratory classes	15
3. Preparation for exercises	10
4. Preparation to the test	15
5. Consultation	5

Student's workload

Source of workload	hours	ECTS
Total workload	60	2
Contact hours	35	2
Practical activities	35	1