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		STUDY MODULE D	ESCRIPTION FORM	T		
	f the module/subject mation Technolo	ogy in Management		Code 1011101231011103576		
Field of	study		Profile of study (general academic, practical	Year /Semester		
Engineering Management - Full-time studies -			(brak)	2/3		
Elective	path/specialty		Subject offered in:	Course (compulsory, elective)		
0	£ =4d	-	Polish	obligatory		
Cycle of study: First-cycle studies			Form of study (full-time,part-time)	full-time		
No. of h				No. of credits		
Lectur		s: - Laboratory: 45	Project/seminars:	- 4		
Status		program (Basic, major, other)	(university-wide, from another	field)		
		(brak)		(brak)		
Education	on areas and fields of sci	ence and art		ECTS distribution (number and %)		
Responsible for subject / lecturer: dr inż. Aleksander Jurga email: aleksander.jurga@put.poznan.pl tel. 616653388 Faculty of Engineering Management ul. Strzelecka 11 60-965 Poznań						
Prere	Prerequisites in terms of knowledge, skills and social competencies:					
1	Knowledge	Basic knowledge from the completechnical field	uter science on the level of the	first semester of studies on		
2	Skills	Ability of the efficient service of t management processes	of the computer and using the MS Office package in			
3	Social competencies	Ability to work in a design projec	t team			
		ectives of the course:				
The air	m of the course is to p as, including the basics	rovide students with knowledge in s of programming.	the field of database design o	f information management		
	Study outco	mes and reference to the	educational results for	a field of study		
Knov	vledge:					
1. The student knows methods and instruments for data collecting, processing and selecting, as well as methods for distributing information - [S1A_W06, K1A_W11]						
2. The student knows basic methods, techniques and instruments and materials used for solving simple engineer tasks from the area of the construction and exploitation of machines - [K04-InzA_W02,K1A_W24]						
Skills						
		n and realize experiments, includin s of them - [K01-InzA_U1,K1A_U1		mulations, and interpret obtained		

2. The student is able to use methods of analysis, simulations and experiments for formulation and creation of engineer solutions - [K01-InzA_U2, K1A_U13]

Social competencies:

- 1. Is aware of the importance of IT knowledge used in engineering. [K1A_K01,K1A_K08]
- 2. Is aware and considers IT issues as support in creating products. [InzA_K02, K1A_K09]

Assessment methods of study outcomes

Faculty of Engineering Management

Forming assessment:

- Lectures: on basis of questions asked during the lecture, which refer to previous Formative assessment:
- a) in the field of lectures: written test at the end of the lecture cycle.
- b) in the field of laboratory classes: implementation of exercises, practical test on a komputer.

Summary:

- a) in the field of lectures: score based on scores for each question.
- b) in the field of laboratory classes: the total score of the exercises and the result of the test.

Course description

Lectures:

IT tasks in management. Structure of the information system in management. Database systems, type of databases. Relational database management system. Architecture of BD systems. Distributed systems. Basics of programming in VB (Visual Studio environment).

Laboratories:

Graphical user interface objects.Introduction to object-oriented programming with the help of tools for rapid application generation (Visual Studio). Introduction to databases, creating a database structure in a selected environment. Basics of data management.

Didactic methods:

- -Information lecture.
- -Work with a book.
- -Demonstration method.
- -Laboratory method

Basic bibliography:

- 1. Jurga A., Rozwój systemów informatycznych. [w]: Adamczyk M. i inni, Projektowanie systemów informacyjnych zarządzania, Wyd. Politechniki Poznańskiej, Poznań, 2010.
- 2. Ragin-Skorecka K., Włodarczak Z., Gry kierownicze, Wydawnictwo Politechniki Poznańskiej, Poznań 2011.
- 3. Connoly T., Begg C., Systemy baz danych, praktyczne metody projektowania, implementacji i zarządzania, Wyd. RM, 2006.
- 4. Kopertowska M., Sikorski W., Bazy danych. Poziom zaawansowany, PWN, Warszawa, 2006
- Mendrala D., Szeliga M., Access 2013 PL: bazy danych? Z programem MS Access to nic trudnego!, Wydawnictwo, Helion, Gliwice 2013.
- 6. . Rogulski M,. Bazy danych dla studentów : [podstawy projektowania i języka SQL], WITKOM (Salma Press), Warszawa

Additional bibliography:

- 1. Wilton P., Colby J., SQL. Od podstaw., Helion, 2005.
- 2. Hernande M.J., Projektowanie baz danych dla każdego : przewodnik krok po kroku; [tł. Żarnowska K., i inni, Wyd. Helion, Gliwice 2014.

Result of average student's workload

Activity	Time (working hours)
1. Lectures	15
2. Laboratory classes	30
3. Preparation for laboratory classes	16
4. Consultation	5
5. Preparation for passing lectures	10
6. Passing lectures	2
7. passing laboratory classes.	2

Student's workload

Source of workload	hours	ECTS
Total workload	80	3
Contact hours	54	2
Practical activities	30	1