STUDY MODULE DESCRIPTION FORM

Name of the module/subject **Information Technology in Management**		Code **1011101331011163576**
Field of study **Management - Full-time studies - First-cycle**	Profile of study (general academic, practical) **(brak)**	Year /Semester **2 / 3**
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 Lecture: **30** Classes: **-** Laboratory: **45** Project/seminars: **-**	No. of credits **4**

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
 	
study effects leading to the acquisition of engineering qualifications
social sciences
    Economics
	ECTS distribution (number and %**)**
	
	3 75%
	1 25%
	    1 25%

Responsible for subject / lecturer:

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Prerequisites in terms of knowledge, skills and social competencies:

1	**Knowledge**	Positive assessment from lectures and classes of the previous semester of the subject
2	**Skills**	Designing tables in the Access program and designing relations between tables
3	**Social competencies**	Independent ability of the teamwork design and ability of conducting the "brainstorming"

Assumptions and objectives of the course:

The course is aimed at presenting students knowledge on designing database for information management systems

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

Knowledge:

1. The student knows methods and instruments for data collecting, processing and selecting, as well as methods for distributing information   - [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]

Skills:

1. The student is able to plan and realize experiments, including measurements, computer simulations, and interpret obtained results and draw conclusions of them   - [K01-InzA_U1]

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

Social competencies:

1. Student is aware of the importance of the knowledge on information technologies, which is applied in engineering activity - [K01-InzA_K1]

2. Student is aware and takes under consideration information issues as a form of support in the process of creating products - [K01_InzA_K2]

Assessment methods of study outcomes
Forming assessment:
- Lectures ? on basis of questions asked during the lecture, which refer to previous lectures on the subject
- Laboratories ? current assessment along the course of classes
Final assessment:
-Lectures - final test in written form
-Laboratories: evaluation of the project

Course description
Algorithm processes, elements of the computerization in management, purchase of a computer system, intelligent systems in management, chosen systems for sectors: financial, accounting, human resources, logistics, in addition, the use of UML language for designing information management systems, mobile systems, integrated management systems

Basic bibliography:

1. Systemy baz danych,praktyczne metody projektowania,implementacji i zarządzania, Connoly T.,Begg C., Wydawnictwo RM, 2006

2. Bazy danych.Poziom zaawansowany., Kopertowska M.,Sikorski W., PWN, Warszawa, 2006

3. Inżynieria oprogramowania , Sommerville Ian, WNT, Warszawa, 2003

Additional bibliography:

1. UML.Inżynieria oprogramowania, Stevens P., Helion, 2007

Result of average student's workload	
Activity	**Time (working hours)**
1. Lectures	30
2. Laboratories	45
3. Preparation for laboratories	16
4. Consultations	5
5. Preparation for the final assessment from the range of lecture?s content	10
6. Final assessment of the lecture?s content	2
7. Final assessment of laboratory classes	2

Student's workload		
Source of workload	**hours**	**ECTS**
Total workload	110	4
Contact hours	84	3
Practical activities	45	1