STUDY MODULE DESCRIPTION FORM

Name of the module/subject **Information Technology in Management**	Code **1011101321011163576**

Field of study **Management - Full-time studies - First-cycle**	Profile of study (general academic, practical) **(brak)**	Year /Semester **1 / 2**

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	No. of credits **3**
Lecture: **15** Classes: **-** Laboratory: **30** Project/seminars: **-**	

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	ECTS distribution (number and %**)**
study effects leading to the acquisition of engineering qualifications	**2 70%**
social sciences	**1 30%**
Economics	**1 30%**

Responsible for subject / lecturer:

dr inż. Andrzej Borucki
email: andrzej.borucki@put.poznan.pl
tel. 061 665 33 71
Wydział Inżynierii Zarządzania
ul. Strzelecka 11 60-965 Poznań

Prerequisites in terms of knowledge, skills and social competencies:

1	**Knowledge**	Basic knowledge from the computer science on the level of the first semester of studies on technical field
2	**Skills**	Ability of the efficient service of the computer and using the MS Office package in management processes
3	**Social competencies**	Ability to work in a design project team

Assumptions and objectives of the course:

The subject is aimed at giving theoretical and practical knowledge about the role of computer science in management and about designing databases for computer supported 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. The student understands the need and knows possibilities lifelong learning, of raising professional, personal and social competence - [K1A_K01]

2. Student is aware of the responsibility for own work and he is ready to follow rules of the team work and taking responsibility for tasks realized within the group - [K1A_K02]

3. Student is aware of the importance and understands non-technical aspects and results of the engineer activity, including its impact on the environment and he realizes the responsibility related to decisions he makes - [K01-InzA_K1]

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 - on basis of the evaluation of the current progress in realization of obtained tasks   Final assessment: -Lectures - final test in written form -Laboratories: on basis of a test of practical skills in programming in Visual Studio and designing a database structure

Course description
The subject includes following content: tasks for computer science in management, the structure of an information system in management, basis of programming in VS, introduction to databases, creation of database structure in a chosen environment

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

Additional bibliography:

1. Help on-line for VS Microsoft 2010

Result of average student's workload	
Activity	**Time (working hours)**
1. Lecture	15
2. Participation in laboratories	30
3. Preparation for laboratories	30
4. Consultations	5
5. Preparation for final test	10
6. Final test	5

Student's workload		
Source of workload	**hours**	**ECTS**
Total workload	95	3
Contact hours	50	2
Practical activities	80	3