STUDY MODULE DESCRIPTION FORM

Name of the module/subject		Code
Information Technology in Management		**1011101131011163576**
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)
-	**English**	**obligatory**
Cycle of study:	Form of study (full-time,part-time)	
First-cycle studies	**full-time**	
No. of hours		No. of credits
Lecture: **30** Classes: **-** Laboratory: **45** Project/seminars: **-**		**4**
Status of the course in the study program (Basic, major, other)	(university-wide, from another field)	
(brak)	**(brak)**	

Education areas and fields of science and art	ECTS distribution (number and %)
study effects leading to the acquisition of engineering qualifications	**3 75%**
social sciences	**1 25%**
Economics	**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
2	**Skills**	Writing data tables and create formulas in the MSExcel
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: practical tests and evaluation of the database 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. Designing of a functional database using MSAccess.

Basic bibliography:

1. Paul Beynon-Davies, Database Systems, Third Edition, PALGRAVE MACMILLAN, New York 2004
2. Thomas Connolly, Carolyn Begg, Database Systems: A Practical Approach to Design, Implementation, and Management, Addison-Wesley, London 2005
3. Roger Jennings, MS Access 2010 in Depth, Que Publishing 2011

Additional bibliography:

1. James Rumbaugh, Ivar Jacobson, Grady Booch, The Unified Modeling Language Reference Manual, Second Edition, Addison-Wesley, Boston 2005

Result of average student's workload

Activity	Time (working hours)
1. Participation in lectures	30
2. Participation in laboratory classes	45
3. Preparation for laboratory classes	25
4. Preparation to the test	15
5. Consultation	5

Student's workload

Source of workload	hours	ECTS
Total workload	120	4
Contact hours	80	3
Practical activities	75	3