

STUDY MODULE DESCRIPTION FORM		
Name of the module/subject Information Technology in Management		Code 1011101321011163576
Field of study Engineering Management - Full-time studies -	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 Lecture: 15 Classes: - Laboratory: 30 Project/seminars: -		No. of credits 3
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 %) 2 70% 1 30% 1 30%
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		
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 aim of the course is to provide theoretical and practical knowledge about the role of computer science in management including the basics of programming		
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 Basic		
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 Visual Basic. Basics of programming include the use of different types of objects and use in programs both procedures and functions. Created programs include conditional statements, the iterations, the use of array variables, and use the file as a data source.		
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. Pomoc elektroniczna do VS Microsoft 2010		
Result of average student's workload		
Activity	Time (working hours)	
1. Participation in lectures	15	
2. Participation in laboratory classes	30	
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	90	3
Contact hours	50	2
Practical activities	60	2