

<b>STUDY MODULE DESCRIPTION FORM</b>		
Name of the module/subject <b>Technology of informatics</b>		Code <b>x</b>
Field of study <b>Chemical and process engineering</b>	Profile of study (general academic, practical) <b>general academic</b>	Year /Semester <b>1 / 1</b>
Elective path/specialty <b>-</b>	Subject offered in: <b>Polish</b>	Course (compulsory, elective) <b>obligatory</b>
Cycle of study: <b>First-cycle studies</b>	Form of study (full-time, part-time) <b>full-time</b>	
No. of hours Lecture: <b>15</b> Classes: <b>-</b> Laboratory: <b>-</b> Project/seminars: <b>-</b>		No. of credits <b>1</b>
Status of the course in the study program (Basic, major, other) <b>basic</b>		(university-wide, from another field) <b>university-wide</b>
Education areas and fields of science and art <b>the sciences</b>		ECTS distribution (number and %) <b>1 100%</b>
<b>Responsible for subject / lecturer:</b> Dr inż Maciej Staszak e-mail: maciej.staszak@put.poznan.pl tel. 061 665 3758 Faculty of Chemical Technology pl. M. Skłodowskiej-Curie 5, 60-965 Poznań tel.: 061 665 3758		<b>Responsible for subject / lecturer:</b> Dr inż Maciej Staszak e-mail: maciej.staszak@put.poznan.pl tel. 061 665 3758 Faculty of Chemical Technology pl. M. Skłodowskiej-Curie 5, 60-965 Poznań tel.: 061 665 3758
<b>Prerequisites in terms of knowledge, skills and social competencies:</b>		
1	<b>Knowledge</b>	Basic knowledge about computer.
2	<b>Skills</b>	Basic skill of computer usage.
3	<b>Social competencies</b>	Awareness of significance of computer in nowadays world..
<b>Assumptions and objectives of the course:</b> To acquaint students with the basic theoretical problems related to the operation of computer systems and software with particular emphasis on engineering applications. Students will acquire skills and competences related to the use of office tools and CAE design support tools during the design classes.		
<b>Study outcomes</b>		<b>Reference to the educational results for a field of study</b>
<b>Knowledge:</b> The graduate has a general knowledge of chemical technology as a field which is directly related to chemical and process engineering		<b>K_W04</b>
<b>Skills:</b> The graduate can acquire information from literature, databases and other sources related to chemical and process engineering, also in a foreign language, integrate them, interpret, draw conclusions and formulate opinions The graduate can communicate using various techniques both in the professional environment and in other environments, including in a foreign language The graduate has the ability to self-study The graduate uses computer programs to support the tasks typical of chemical and process engineering		<b>K_U01 K_U02 K_U05 K_U07</b>
<b>Social competencies:</b> The graduate is aware of the responsibility for his/her own work and the willingness to subordinate teamwork and responsibility for jointly accomplished tasks		<b>K_K04</b>

<b>Assessment methods of study outcomes</b>		
Project: Assessment based on colloquiums in project classes.		
Lecture: Exam based on the material of the lecture.		
<b>Course description</b>		
Basic concepts of computer techniques. Utilities and applications of computers. Information technology and society. Database systems. Security, copyright, legal regulations. Hardware and system software, ergonomics. IT networks.		
<b>Basic bibliography:</b>		
1. Podstawy technik informatycznych i komunikacyjnych / Witold Sikorski. Autor: Sikorski, Witold. Wydawnictwo Naukowe PWN: Mikom, 2009.		
2. Technologia informacyjna / Jae K. Shim, Joel G. Siegel, Robert Chi ; przeł. [z jęz. ang.] Adam Oracz. Autor: Shim, Jae K., Siegel, Joel G., Chi, Robert., Oracz, Adam . Tł. Dom Wydawniczy ABC, 1999.		
3. Technologie informacyjne - przykłady zastosowań: materiały do wykładów / Marek Cieciora. Autor: Cieciora, Marek. Vizja Press & It, 2007.		
4. Technologie informatyczne i ich zastosowania / pod red. Aleksandra Jastriebowa. Autor: Jastriebow, Aleksander. Red. Politechnika Radomska im. Kazimierza Pułaskiego: Instytut Technologii Eksploatacji - Państwowy Instytut Badawczy, cop. 2010.		
5. Mathcad 12, 11, 2001i, 2001, 2000 w algorytmach / Witold Paleczek. Autor: Paleczek, Witold. Akademicka Oficyna Wydawnicza Exit, 2005.		
6. Microsoft Office 2007 PL w biurze i nie tylko / Piotr Wróblewski. Autor: Wróblewski, Piotr (informatyka). "Helion", 2007.		
7. Office 2010: praktyczny kurs: PowerPoint 2010, Word 2010, Excel 2010, Access 2010 / Alicja Żarowska-Mazur, Waldemar Węglarz. Autor: Żarowska-Mazur, Alicja., Węglarz, Waldemar. Wydawnictwo Naukowe PWN, 2012.		
<b>Additional bibliography:</b>		
1. Mikrospołeczność informacyjna: na przykładzie miasteczka internetowego Akademii Górniczo-Hutniczej w Krakowie / pod red. Lesława H. Habera. Autor: Haber, Lesław Henryk. Red. Uczelniane Wydawnictwa Naukowo-Dydaktyczne AGH, 2001.		
2. Problemy społeczeństwa informacyjnego: elementy analizy, ewaluacji i prognozy / Lech W. Zacher (red. nauk.) ; [tł. tekstów aut. zagranicznych wykonali: Jacek F. Mączyński, Agnieszka Pawłowska, Lech W. Zacher]. Wyższa Szkoła Przedsiębiorczości i Zarządzania		
3. Społeczeństwo informacyjne: szanse, zagrożenia, wyzwania / Tomasz Goban-Klas, Piotr Sienkiewicz. Autor: Goban-Klas, Tomasz., Sienkiewicz, Piotr. Wydaw. Fundacji Postępu Telekomunikacji, 1999.		
<b>Result of average student's workload</b>		
Activity	Time (working hours)	
1. Exam preparation	10	
2. Lecture	15	
<b>Student's workload</b>		
Source of workload	hours	ECTS
Total workload	25	1
Contact hours	25	1
Practical activities	0	0

