

| STUDY MODULE DESCRIPTION FORM | | |
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| Name of the module/subject Technology of informatics | | Code x |
| Field of study Environmental Protection Technologies | Profile of study (general academic, practical) general academic | Year /Semester 1 / 1 |
| 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: - Project/seminars: - | | No. of credits 1 |
| Status of the course in the study program (Basic, major, other) basic | | (university-wide, from another field) university-wide |
| Education areas and fields of science and art the sciences | | ECTS distribution (number and %) 1 100% |
| Responsible for subject / lecturer: 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 | | Responsible for subject / lecturer: 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 |
| Prerequisites in terms of knowledge, skills and social competencies: | | |
| 1 | Knowledge | Basic knowledge about computer. |
| 2 | Skills | Basic skill of computer usage. |
| 3 | Social competencies | Awareness of significance of computer in nowadays world.. |
| Assumptions and objectives of the course: 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. | | |
| Study outcomes | | Reference to the educational results for a field of study |
| Knowledge: The graduate knows the principles of environmental protection related to chemical production and waste management | | K_W05 |
| Skills: The graduate can obtain necessary information from literature, databases and other sources related to chemical sciences, interpret them properly, draw conclusions, formulate and justify opinions. The graduate can work both individually and in a team environment in a professional and other environment. The graduate can prepare and present an oral presentation in the field of chemical technology in both Polish and a foreign language. The graduate uses computer programs assisting the implementation of typical tasks in environmental protection technologies. | | K_U01 K_U02 K_U04 K_U07 |
| Social competencies: The graduate can cooperate and work in a group, accepting various roles in it | | K_K03 |

| Assessment methods of study outcomes | | |
|---|----------------------|------|
| Project: Assessment based on colloquiums in project classes. | | |
| Course description | | |
| Mastering the operation of tools used to conduct mathematical calculations. Tool: Mathcad | | |
| Basic bibliography: | | |
| 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. | | |
| Additional bibliography: | | |
| 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. | | |
| Result of average student's workload | | |
| Activity | Time (working hours) | |
| 1. Participation in lectures | 10 | |
| 2. Preparation for the exam | 15 | |
| Student's workload | | |
| Source of workload | hours | ECTS |
| Total workload | 25 | 1 |
| Contact hours | 25 | 1 |
| Practical activities | 0 | 0 |