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| **Course title**  Information technology – ERASMUS  Technologia informacyjna – ERASMUS | | | **ECTS code**  13.3.1269 |
| **Name of unit administrating study**  Faculty Chemistry | | | |
| **Studies**   |  |  |  |  | | --- | --- | --- | --- | | **Field of study** | **Type** | **Form** |  | | Chemistry | Bachelor | Full-time studies |  | | Chemistry | Master | Full-time studies |  | | Environmental sciences | Bachelor | Full-time studies |  | | | | |
| **Teaching staff**  dr hab. Adam Sieradzan | | | |
| **Forms of classes, the realization and number of hours** | | **ECTS credits 4**  classes 30 h  tutorial classes 20 h  student’s own work 50 h  TOTAL: 100 h - 4 ECTS | |
| 1. **Forms of classes, in accordance with the UG Rector’s regulations**   laboratory classes | |
| 1. **The realization of activities**   In-class | |
| 1. **Number of hours**   30 h - laboratory | |
| **The academic cycle**  summer | | | |
| **Type of course**  facultative | **Language of instruction**  English | | |
| **Teaching methods**  Laboratory experiments | **Form and method of assessment and basic criteria for evaluation or examination requirements** | | |
| **A. Final evaluation, in accordance with the UG study regulations**  course completion (with a grade) | | |
| **B. Assessment methods**  Writing test | | |
| **C. The basic criteria for evaluation** or exam requirements  Evaluation criteria in accordance with the UG Studies Regulations; | | |
| **Required courses and introductory requirements**  no requirements | | | |
| **Aims of education**  Introduction into the Unix-based operating systems. Familiarizing the students with the basic tools for: file operations, text editing, communication with remote system, changing of file attributes, graphics editing, the free search for the information on the resources of the WWW and e-mail handling. Demonstration of molecular graphics programs (bioinformatics and visualization of the molecules) and tools for two-dimensional chemical compounds drawing. Familiarizing the students with Educational Portal of the University of Gdańsk; e-learning courses handling.  **Convergent to:** IT, digital chemistry | | | |
| **Course contents**  Laboratory issues: Linux operating system – accounts, passwords, safety, file and directory operations; text editors, logging into the remote system; using WWW resources (e-mail, web browsers, communicators); office suite – word processor, spreadsheet and charts, presentations; tools for drawing and visualization of the molecule structures; graphics editing; creating web pages in the CMS environment. | | | |
| **Bibliography of literature**  Monographic works provided by assistants leading classes | | | |
| **Knowledge**  1. knows the Unix-based operating systems  2. has knowledge about the basic tools for: file operations, text editing, communication with remote system, changing of file attributes, graphics editing, the free search for the information on the resources of the WWW and e-mail handling,  3. knows the students with Educational Portal of the University of Gdańsk, | | | |
| **Skills**  1. understands the basic concepts of molecular graphics programs (bioinformatics and visualization of the molecules),  2. recognizes the most important tools for two-dimensional chemical compounds drawing,  3. can operate the Unix-based operating systems | | | |
| **Social competence**  1. understands the need for further education in the field of information technology  2. can transfer knowledge in the molecular graphics programs | | | |