

| STUDY MODULE DESCRIPTION FORM | | |
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| Name of the module/subject Engineering Graphics | | Code 1010701221010720225 |
| Field of study Chemical Technology | Profile of study (general academic, practical) (brak) | Year /Semester 1 / 2 |
| Elective path/specialty - | Subject offered in: Polish | Course (compulsory, elective) elective |
| Cycle of study: First-cycle studies | Form of study (full-time, part-time) full-time | |
| No. of hours Lecture: - Classes: - Laboratory: - Project/seminars: 1 | | No. of credits 2 |
| 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 | | ECTS distribution (number and %) |
| Responsible for subject / lecturer: Prof. dr hab. Lubomira Broniarz-Press email: lubomira.broniarz-press@put.poznan.pl tel. 61 6652789 Faculty of Chemical Technology ul. Piotrowo 3 60-965 Poznań | | Responsible for subject / lecturer: dr inż. Marek Ochowiak email: marek.ochowiak@put.poznan.pl tel. 61 6652147 Faculty of Chemical Technology ul. Piotrowo 3 60-965 Poznań |
| Prerequisites in terms of knowledge, skills and social competencies: | | |
| 1 | Knowledge | - basic computer skills, - basics of technical drawing - engineering graphics. |
| 2 | Skills | - ability to perform and reading technical documentation |
| 3 | Social competencies | - the student knows the limits of his own knowledge and understands the need for continuing education. |
| Assumptions and objectives of the course: Practical knowledge of computer aided design in AutoCAD. The student acquires the ability to perform drawings of machine parts and apparatus used in purification process. | | |
| Study outcomes and reference to the educational results for a field of study | | |
| Knowledge: | | |
| 1. He has knowledge of the technical drawings and 2D computer aided design. - [K_W15] | | |
| 2. He has expertise in the performance of drawings. - [K_W15] | | |
| Skills: | | |
| 1. Use an understanding of the sources of knowledge (basic bibliography) and gain knowledge from other literature sources, including electronic. - [K_U01] | | |
| 2. He can solve tasks in engineering graphics. - [K_U07] | | |
| Social competencies: | | |
| 1. He understands the need for further education and improve their professional competences. He knows that the knowledge and skills will allow him to compete in the labor market. - [K_K01] | | |

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| Assessment methods of study outcomes |
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| Knowledge Test - 1 Evaluation of activity - 2 Skills Test - 1.2 Social competences Evaluation of activity - 1 | | |
| Course description | | |
| During the course are discussed: ? the introduction, ? work with layers, ? dimensioning ? drawings of machine parts, ? drawing of apparatus used in the process of purification. | | |
| Basic bibliography: 1. Kłosowski P.: Ćwiczenia w kreśleniu rysunków w systemie AutoCAD 2010 PL, 2011 PL, Wydawnictwo Politechniki Gdańskiej, Gdańsk 2010. 2. Pikoń A.: AutoCAD 2011 PL : pierwsze kroki, Helion, Gliwice 2011. | | |
| Additional bibliography: 1. Babiuch M.: AutoCad 2000PL. Ćwiczenia praktyczne, Helion, Gliwice 2000. | | |
| Result of average student's workload | | |
| Activity | Time (working hours) | |
| 1. Participation in classes | 15 | |
| 2. Participation in consultation | 5 | |
| 3. Preparation for the test | 5 | |
| Student's workload | | |
| Source of workload | hours | ECTS |
| Total workload | 25 | 2 |
| Contact hours | 20 | 2 |
| Practical activities | 15 | 2 |