

STUDY MODULE DESCRIPTION FORM		
Name of the module/subject AutoCad Advanced Course		Code 1010701121010723230
Field of study Chemical and Process Engineering	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 1
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 with knowledge graphical programs (including AutoCad).
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 2D. The student acquires the ability to create drawings in AutoCad. Course for students knowing the basics of AutoCAD.		
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 technical 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_U06]		
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]		
Assessment methods of study outcomes		

Knowledge Test - 1 Evaluation of activity - 2 Skills Test - 1.2 Social competences Evaluation of activity - 1		
Course description		
During the course are discussed: ? blocks, ? isometric drawing, ? drawings of machine parts and apparatus.		
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	1
Contact hours	20	1
Practical activities	15	1