


Field of study	Chemical Engineering							
Mode of study	stationary	Level	first cycle					
Graduate's qualification	inżynier							
Area(s) of study	nauki techniczne							
Educational profile	general academic							
Module								
Course unit	Research Project in Chemical Technology							
Code	ChEn_1A_S_D02b							
Field of specialisation								
Administering faculty	Institute of Inorganic Chemical Technology and Environmental Engineering							
ECTS	15,0	ECTS (forms)	15,0					
Form of course credit	credits	Language	english					
Electives	12	Elective group						
Form of instruction	Code	Semester	Hours	ECTS	Weight	Credit		
	PD	7	0	15,0	1,00	credits		
Leading teacher	Grzechulska-Damszel Joanna (Joanna.Grzechulska@zut.edu.pl)							
Other teachers								
Prerequisites								
W-1	Basis of chemical technology							
W-2	Chemical technology - processes of chemical synthesis industry							
W-3	Industrial technology laboratory							
Module/course unit objectives								
C-1	Acquire the basic skills in conduction and control of the processes in the field of inorganic chemical technology, biotechnology and environment engineering							
C-2	Acquire the skills in data collection and interpretation							
C-3	Acquire the skills in the preparation of degree's thesis basing on the subject literature research and results obtained and worked out							
C-4	Preparation of oral presentation of degree's thesis							
Course content divided into various forms of instruction					Number of hours			
T-PD-1	Realization of research partially conducted within a framework of degree laboratory					0		
T-PD-2	Analysis of subject literature and presentation of it the theoreticall part of degree's thesis					0		
T-PD-3	Work out of results of the studies and presentin it in the practical part of the degree's thesis					0		
T-PD-4	Preparing of oral presentation of degree's thesis					0		
Student workload - forms of activity					Number of hours			
A-PD-1	Practical experiments partially realized parallely within the framework of degree laboratory					260		
A-PD-2	Work out the results of the studies and their interpretation					50		
A-PD-3	Writing og degree's thesis					100		
A-PD-4	Preparing for the degree's examination					40		
Teaching methods / tools								
M-1	Individual, discussions dealing with the literature analysis, conduction of studies and results work out							
M-2	Individual discussion dealing with the form of degree's thesis and progress in editing of thesis							
Evaluation methods (F - progressive, P - final)								
S-1	F	Cyclic evaluation of realization of studies and progress in editing of degree's thesis						
S-2	F	Evaluation of activity and individuality						
S-3	P	Valuation of degree's thesis						
Designed learning outcomes		Reference to the learning outcomes designed for the fields of study	Reference to the learning outcomes defined for the particular areas of education	Reference to learning outcomes leading to the degree of "inżynier"	Course objectives	Course content	Teaching methods	Evaluation methods
Knowledge								

[illegible]