



Projekt współfinansowany przez Unię Europejską w ramach Europejskiego Funduszu



	NAKODOWA STKATEGIA STOSHOSCI	Społe	cznego	1 ONDOSE SI OLLCZINI	* * *
Course title				ECTS code	
Chemical business design				13.3.0740	
Name of unit adminis	trating study				
null					
Studies					
faculty	field of study	type	all		
Faculty of Chemistry	Chemical Business	form			
		specialty	all		

Teaching staff

prof. dr hab. inż. Adriana Zaleska-Medynska; dr inż. Anna Gołąbiewska; prof. UG, dr hab. Przemysław Kulawczuk; dr Andrzej Poszewiecki; dr inż. Joanna Nadolna; dr inż. Beata Bajorowicz

specialization all

Forms of classes, the realization and number of hours	ECTS credits			
Forms of classes	3			
	3			
Auditorium classes, Lecture	classes - 45 h			
The realization of activities	tutorial classes – 5 h			
classroom instruction	student's own work – 25 h			
Number of hours				
1.4.1.2.	Total, 75 h 2 FOTO			
Auditorium classes: 30 hours, Lecture: 15 hours	Total: 75 h - 3 ECTS			

The academic cycle

2024/2025 winter semester

Type of course	Language of instruction
obligatory	polish
Teaching methods	Form and method of assessment and basic criteria for eveluation or examination requirements
 Auditorium seminar: case studies analysis, business project method, discussion 	Final evaluation
- seminar lecture	- Graded credit - Examination
	Assessment methods
	- assignment work – project or presentation
	- oral exam The basic criteria for evaluation
	Final grade will be issued based on the students' activity during classes and based on the group projects prepared by students. The grades from the activity in the classroom and project presentation will be in accordance with the guidelines defined by the "UG Study Regulations".

Required courses and introductory requirements

A. Formal requirements

Principles of general chemistry, start-up design.

B. Prerequisites

Basic knowledge of English language.

Aims of education

Aims of education

- Acquainting with the principles of designing of small production installations;

Chemical business design #13.3.0740

Sylabusy - Centrum Informatyczne UG



- Acquainting with the principles of economical analysis / determining the profitability of a new production installation

Course contents

Course contents

Lecture program:

Business planning process (economical and technological aspects)

The structure of the technological process

Business plan structure

The essence of the strategic and marketing analysis

Financial analysis of the planned project

Seminar program:

1. Development of a preliminary process design for a selected company operating in the field of cosmetics, medicines, plant protection products, paints, varnishes, biotechnology, waste processing, etc.,:

Development of chemical concept for selected technological process

Development of technological concept of the process (process diagram flow, mass and energy balance, technological diagram)

2. Development of preliminary business plan for selected small company

Choice and justification of business concept model for a start up

Development of market and financial for a start up

Bibliography of literature

Bibliography of literature

Literature required to pass the course

E.Pawłowski, K. Pawłowski, J. Trzcielińska, S. Trzcieliński, Projektowanie biznesu i ocena przedsięwzięć inwestycyjnych, Wydawnictwo Politechniki Poznańskiej, Poznań 2010, publikacja elektroniczna https://www.researchgate.net/publication/269332977_projektowanie_biznesu

Extracurricular readings

The learning outcomes (for the field of study	and
specialization)	

Knowledge

Knowledge

Distinguishes the patentability of products/ technologies

Prepares the business plan for the small company

Identifies and recognizes market needs

Designs small production installations and determines their profitability

Skills

Skills

Group co-working

Prepares business plan

The ability to briefly and simply presents idea

Evaluates the technology readiness level

The ability to choose a chemical and technological concept

Social competence

Social competence

Understands the benefits of teamworking

Understands the needs of systematic literature study

Shows responsibility for time oriented tasks realization

Is aware of the needs of critical own work analysis

Is aware of the needs for honest and reliable work.

Contact

adriana.zaleska-medynska@ug.edu.pl