



Projekt współfinansowany przez Unię Europejską w ramach Europejskiego Funduszu Społecznego



Społecznego						
Course title			ECTS code			
Engineering seminar - economy				13.3.0736		
Name of unit administrating study						
Faculty of Economics						
Studies						
faculty	field of study	type	all			\neg
Faculty of Chemistry	Chemical Business	form				\dashv
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specialty all specialization all

Teaching staff

prof. UG. dr hab. Przemysław Kulawczuk: dr Andrzei Poszewiecki

Forms of classes, the realization and number of hours	ECTS credits
,	Lo 10 credits
Forms of classes	2
Seminar	classes - 30 h
The realization of activities	tutorial classes – 5 h
classroom instruction	student's own work – 15 h
Number of hours	
Seminar: 30 hours	Total: 50 h - 2 ECTS

The academic cycle

2025/2026 winter semester

ZUZUZUZU WIITIEI SEITIESIEI	
Type of course	Language of instruction
obligatory	polish
Teaching methods	Form and method of assessment and basic criteria for eveluation or examination requirements
discussion	Final evaluation
	Graded credit
	Assessment methods
	Engineering examination, defense of engineering thesis (business and technology project)
	The basic criteria for evaluation
	The basic criteria for evaluation or exam requirements
	Quality of the engineering thesis in the business part (feasible, purposeful, cost-
	effective, with elements of innovation, consistent with the technological part)
	The scale of grades according to the UG Study Regulations

Method of verifying required learning outcomes

Required courses and introductory requirements

A. Formal requirements

completed courses on: startups design, startups financing, startups marketing and chemical business design

B. Prerequisites

none

Aims of education

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Developing a coherent and realistic part of the economic business and technology plan (diploma / engineering thesis)

Course contents

Engineering seminar - economy #13.3.0736

Sylabusy - Centrum Informatyczne UG Dział Kształcenia



Course contents

- 1. Formulation of the business model verification of potential and reality
- 2. Construction of organizational and qualification concept analysis of matching to the business objectives of the enterprise
- 3. Market, marketing objectives, market activities and market recognition verification of the concept's coherence with the business model and verification of the rationality of market objectives
- 4. Financing the undertaking verification of the correctness, rationality and consistency of the proposed financial solutions with the proposed business model
- 5. Anticipation of implementation difficulties and design of remedies for potential problems in the first period of start up
- 6. Checking the cohesion of the economic part with the chemical and technological business and technology plan

Bibliography of literature

Bibliography of literature

Literature required to pass the course

- 1. Jak zostać i pozostać przedsiębiorcą, PARP, 2014
- 2. T. Gołębiewski (red), Modele biznesu polskich przedsiębiorstw, SGH 2008
- 3. Modele biznesowe budowy i rozwoju firm spin off na podbudowie szkoły wyższej, praca zbiorowa, IBnDiPP, Warszawa 2010
- 4. Modele biznesowe przedsiębiorstw tworzonych na bazie szkół wyższych, IBnDiPP, Warszawa 2011

Extracurricular readings

1.Przedsiebiorczość technologiczna i intelektualna XXI wieku, praca zbiorowa pod red. Mieczysława Baka i Przemysława Kulawczuka, KIG, Warszawa 2009

Warszawa 2009	
The learning outcomes (for the field of study and	Knowledge
specialization)	Knowledge
	The student knows how to verify the potential and achievability of the business model The student knows the organizational solutions used in start-ups The student knows the methods of verification of the rationality of market goals The student knows the correct methods of creating financial plans and knows the methods of their verification The student knows the principles and construction of the preparation of business and technology plan
	Skills
	Skills The student can verify the potential and reality of the business model The student can apply organizational solutions used in start-ups The student can verify the rationality of market goals The student can draw up financial plans and knows how to verify them The student can prepare a coherent business and technology plan
	Social competence
	Social competence Accuracy Regularity creativity Group work The ability to share knowledge and skills with others

Contact

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