



COURSE DESCRIPTION CARD - SYLLABUS

Course name

Innovation Processes and Patents

Course

Field of study

Engineering Management

Area of study (specialization)

Level of study

First-cycle studies

Form of study

full-time

Year/Semester

4/7

Profile of study

general academic

Course offered in

English

Requirements

elective

Number of hours

Lecture

15

Tutorials

15

Laboratory classes

Projects/seminars

Other (e.g. online)

Number of credit points

3

Lecturers

Responsible for the course/lecturer:

Ph.D., Jakub Pawlak

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Faculty of Engineering Management

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Responsible for the course/lecturer:

Prerequisites

Basic knowledge of economics, innovation and analyzing social phenomena



Course objective

Provide basic knowledge of the area of innovation in a market economy, conditions of innovation, including intellectual property as a driver of economic development in order to master the basic skills needed to initiate innovative projects. Developing teamwork skills in students

Course-related learning outcomes

Knowledge

has extended and deepened knowledge of the sciences necessary to understand and describe the issues of organization management [P6S_WG_01]

has an orderly and theoretically founded knowledge of behavior, organizational standards, understands the importance of organizational and social ties in creating an organization [P6S_WG_03]

knows the research methodology as well as the methods and tools for modeling the processes taking place between market participants [P6S_WG_10]

has a basic knowledge of the nature of management sciences and their place as well as connections with contextual and ergological sciences [P6S_WG_11]

Skills

is able to use basic theoretical knowledge and obtain data to analyze specific social processes and phenomena (cultural, political, legal, economic) in the field of management [P6S_UW_01]

is able to correctly interpret social phenomena (cultural, political, legal, economic) in the field of management [P6S_UW_06]

is able to properly analyze the causes and course of specific social processes and phenomena (cultural, political, legal, economic) in the field of management [P6S_UW_07]

Social competences

is able to search and select educational and training centers in order to supplement and improve knowledge and skills [P6S_KK_01]

is aware of the importance of professional behavior, compliance with the rules of professional ethics and respect for the diversity of views and cultures, as well as care for the traditions of the managerial profession [P6S_KR_02]

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Lectures: evaluation of active participation in classes, preparation of the team-work project

Exercise: Grading based on: test, active participation in class

Programme content

Innovation, innovation processes. Sources of innovation: the importance of intellectual property protection. The role of science in building innovative knowledge economy. Criteria for assessment of



innovation and innovation (EIS, GIS, IUS). Financing innovation. . Role of the State: Polish innovation policy and the European Union. Innovation policy, including patent policy (Intellectual property). Invention and innovation. Infrastructure innovation: business incubators and innovation centers, technology parks, etc. Innovation in enterprises. Competence of innovative managers. Regional innovation strategies.

Teaching methods

information lecture, problem lecture;

methods of independent learning: classic problem method (problem formulation, verification, student work assessment), case study method;

discussion methods: seminar, student's lecture, brainstorming, metaplan (conclusions from discussions in teams presented on the forum in the form of a poster, multimedia presentation);

practical and practical methods: auditory exercises, solving cognitive tasks.

Bibliography

Basic

1. M.Zajączkowski Podstawy innowacji i ochrony własności intelektualnej, Economicus, Szczecin 2003
2. J.Tidd, J.Bessant, Zarządzanie innowacjami . Integrowanie zmian technologicznych, rynkowych i organizacyjnych, Oficyna Kluwer i Wolters, Warszawa 2015
3. R.Knosala, A.Boratyska-Sala, M.Jurczyk-Bunkowska, A.Moczała, Zarządzanie innowacjami, PWE, Warszawa 2014
4. J.Cieślik Przedsiębiorczość dla ambitnych. Jak uruchomić własny biznes WAIp Warszawa 2008
5. <http://www.uprp.pl/strona-glowna/Menu01,9,0,index,pl/>

Additional

1. J.Tidd, J.Bessant Managing Innovation. Integrating Technological, Market and Organizational Change John Wiley & Sons; S
2. http://www.pi.gov.pl/parp/chapter_86000.asp
3. J.D.Antoszkiewicz, Innowacje w firmie. Praktyczne metody wprowadzania zmian, Poltext, Warszawa 2008
4. P.F.Drucker, Innowacja i przedsiębiorczość. Praktyka i zasady, PWE, Warszawa 1992



Breakdown of average student's workload

	Hours	ECTS
Total workload	75	3,0
Classes requiring direct contact with the teacher	30	1,0
Student's own work (literature studies, preparation for laboratory classes/tutorials, preparation for tests, project preparation) ¹	45	2,0

¹ delete or add other activities as appropriate