



## 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

part-time

Year/Semester

4/7

Profile of study

general academic

Course offered in

Polish

Requirements

elective

### Number of hours

Lecture

10

Laboratory classes

Other (e.g. online)

Tutorials

10

Projects/seminars

### Number of credit points

3

### Lecturers

Responsible for the course/lecturer:

Jakub Pawlak Ph.D.

Responsible for the course/lecturer:

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Faculty of Engineering Management

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### 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

1. Student has a basic knowledge of organizational and social behavior
2. He knows the general rules for the establishment and development of forms of individual entrepreneurship, utilizing knowledge of engineering, economics and management



3. Knows and understands the basic concepts and principles for the protection of Industrial Property and Copyright

4. The student has an in-depth knowledge of ethical standards, their sources and nature, changes and ways of influencing organizations.

5. The student has an in-depth knowledge of the subject matter of the course in relation to management sciences and research methods used in them.

#### Skills

1. Student is able to correctly interpret social phenomena (cultural, political, legal, economic) in the fields of economics and management

2. Students can use basic theoretical knowledge and gain data to examine specific processes and social phenomena in the fields of economics and management

3. Student can properly analyze the causes and course of the specific processes and social phenomena in the fields of economics and management

4. The student correctly uses the normative systems and certain standards and rules to solve specific tasks related to the field of economics and management

#### Social competences

1. Students can work together to prepare and implement innovative businesses

2. Students can contribute to the preparation of substantive social projects in terms of the legal, economic and organizational aspects

3. The student is aware of the importance of professional conduct, the ethics of professional ethics and respect for diversity of views and cultures

#### Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Lectures: assessment of inclusion in class, preparation of the required project

Lectures: project evaluation (60% of the final grade)

Tutorials: credit on the basis of: test-colloquium, connections covered in class

Forming assessment: credit based on: test-colloquium, participation in classes available

Summative assessment: written test - test (40% of the final grade)

#### 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 tutorials, 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](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	20	1,0
Student's own work (literature studies, preparation for laboratory classes/tutorials, preparation for tests/exam, project preparation) <sup>1</sup>	55	2,0

<sup>1</sup> delete or add other activities as appropriate