



## COURSE DESCRIPTION CARD - SYLLABUS

Course name

Innovations Management

### Course

Field of study

Engineering Management

Area of study (specialization)

Level of study

Second-cycle studies

Form of study

full-time

Year/Semester

1/1

Profile of study

general academic

Course offered in

polish, english

Requirements

compulsory

### Number of hours

Lecture

15

Laboratory classes

Tutorials

15

Projects/seminars

Other (e.g. online)

### Number of credit points

2

### Lecturers

Responsible for the course/lecturer:

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Responsible for the course/lecturer:

### Prerequisites

Knowledge: Can explain the basic issues of organizational science and management theory.

Skills: Is able to identify and associate basic problems of organizational science and management theory.

Competences: Demonstrates readiness to develop their knowledge and skills. Is open to team work.

### Course objective

The aim of the course is to familiarize students with the issues of innovation management and in particular the relationships between the development of the economy and its innovation, concepts of



innovation models, creativity in shaping innovation, sources of financing innovation and the shaping and development of innovative enterprises.

### Course-related learning outcomes

#### Knowledge

Has extended knowledge about changes in the structure of organizations resulting from the impact, creation and implementation of innovation - [K2A\_W03]

Has expanded knowledge about the relationships occurring in organizational units and between them resulting from the impact, creation and implementation of innovation - [K2A\_W05]

Knows methods and tools for modeling decision-making processes that support innovation management - [K2A\_W09]

Has extended knowledge of structuring mechanisms and business management models in the context of innovation - [K2A\_W14]

Has extended knowledge of change processes and management of these changes in the context of innovation management - [K2A\_W15]

Knows and understands the basic concepts and principles in the field of protection of industrial property and copyright and the need to manage intellectual property resources with particular emphasis on innovation management, including the creation of spin-offs, spin-outs and academic entrepreneurship - [K2A\_W17]

Knows the general principles of creating and developing forms of individual entrepreneurship with particular emphasis on innovation management, including the creation of spin-offs, spin-outs and academic entrepreneurship - [K2A\_W18]

#### Skills

Fluent in knowledge and understanding of changes in the structure of organizations resulting from the impact, creation and implementation of innovation - [K2A\_W03]

Has extended knowledge of the relationships occurring in organizational units and between them resulting from the impact, creation and implementation of innovation - [K2A\_W05]

Knows methods and tools for modeling decision-making processes that support innovation management - [K2A\_W09]

Has extended knowledge of structuring mechanisms and business management models in the context of innovation - [K2A\_W14]

Has extended knowledge of change processes and management of these changes in the context of innovation management - [K2A\_W15]

Knows and understands the basic concepts and principles in the field of protection of industrial property and copyright and the need to manage intellectual property resources with particular emphasis on



innovation management, including the creation of spin-offs, spin-outs and academic entrepreneurship - [K2A\_W17]

Knows the general principles of creating and developing forms of individual entrepreneurship with particular emphasis on innovation management, including the creation of spin-offs, spin-outs and academic entrepreneurship - [K2A\_W18]

#### Social competences

Is aware of the responsibility for own work and readiness to comply with the principles of teamwork and taking responsibility for jointly implemented tasks, especially in the area of creating and implementing innovation - [K2A\_K02]

Is able to see the cause-and-effect relationships in achieving the set goals and rank the importance of alternative or competitive tasks in the field of Innovation management - [K2A\_K03]

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

Learning outcomes presented above are verified as follows:

Formative assessment:

a) in the scope of exercises: based on the assessment of current progress of task implementation in the simulation process of creating and implementing innovations

b) in the scope of lectures: based on answers to questions about the material discussed in previous lectures,

Summative assessment:

a) in the scope of exercises based on: (1) public presentation of the results of simulation of creating and implementing innovations,

(2) discussion after the presentation; (3) the form and quality of prepared materials,

b) in the scope of lectures: exam in the form of a choice test, with answers among which at least one is correct; each question is scored on a scale of 0 to 1; the exam is passed after obtaining at least 55% of points. You can take the exam after passing the exercises.

#### Programme content

The concept and types of innovation in industry. Organizational and marketing innovations. Product and process innovations. Open and closed innovations. Stages of implementing innovation. An example of using innovation in practice.

#### Teaching methods

Lectures - monographic and conversational

Exercises - observation, demonstration and project method



## Bibliography

### Basic

Knosala R. [red.] (2014). Zarządzanie innowacjami, Polskie Wydawnictwo Ekonomiczne.

Kałkowska J., Pawłowski E., Włodarkiewicz-Klimek H. (2013). Zarządzanie organizacjami w gospodarce opartej na wiedzy, Wydawnictwo Politechniki Poznańskiej, Poznań.

Karlik M (2013). Zarządzanie innowacjami w przedsiębiorstwie: poszukiwanie i realizacja nowatorskich projektów, Wydawnictwo Poltext.

### Additional

Tidd J., Bessant J. (2011). Zarządzanie innowacjami: integracja zmian technologicznych, rynkowych i organizacyjnych, Oficyna Wolters Kluwer Business.

Żebrowski M., Waćkowski K. (2011). Strategiczne zarządzanie innowacjami: strategie małych i średnich przedsiębiorstw IT, Difin.

Durlik I., Santarek K. (2016). Inżynieria Zarządzania III. naukowe, techniczne i inwestycyjne przygotowanie produkcji wyrobów wysokiej techniki. C.H. Beck.

## Breakdown of average student's workload

	Hours	ECTS
Total workload	50	2,0
Classes requiring direct contact with the teacher	30	1,0
Student's own work (literature studies, preparation for laboratory classes/tutorials, preparation for tests/exam, project preparation) <sup>1</sup>	20	1,0

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