POZNAN UNIVERSITY OF TECHNOLOGY

EUROPEAN CREDIT TRANSFER AND ACCUMULATION SYSTEM (ECTS)

pl. M. Skłodowskiej-Curie 5, 60-965 Poznań

COURSE DESCRIPTION CARD - SYLLABUS

Course name

Innovations Management

Course

Field of study

Engineering Management

Area of study (specialization)

The enterprise management of the future

Level of study

Second-cycle studies

Form of study

full-time

Year/Semester

2/3

Profile of study

general academic

Course offered in

english,

Requirements

compulsory

Number of hours	Laboratory classes	Other (e.g. online)
Lecture		
15	Projects/seminars	
Tutorials		
15		

Number of credit points

2

Lecturers

Responsible for the course/lecturer:

dr hab. Hanna Włodarkiewicz-Klimek, prof. PP

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616653372

Faculty of Engineering Management

ul. J. Rychlewskiego 2, 60-965 Poznań

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.

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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

The student describes the legal aspects of innovation management, including the impact of business law on the innovation process in organizations [P7S_WG_01].
The student lists contextual sciences and their relevance to the innovation process, including research methods used in innovation management [P7S_WG_04].
The student characterizes the role of modern technologies and devices in shaping innovation, including their application in different types of industrial innovation [P7S_WG_10].
The student lists the ethical standards for bringing innovations to the market [P7S_WK_01].
The student defines the principles of intellectual property and copyright protection in the context of innovation management [P7S_WK_02].

Skills

The student evaluates and analyzes different types of innovations, including product, process, organizational and marketing innovations [P7S_UW_03].
The student designs innovation processes in organizations, using appropriate decision-making methods [P7S_UW_04].
The student analyzes the stages of innovation implementation and evaluates their effectiveness using research methods [P7S_UW_05].
The student analyzes existing technological solutions in organizations and proposes innovative improvements [P7S_UW_09].

Social competences

The student develops the interdisciplinary skills necessary to effectively manage innovation in complex organizational environments [P7S_KK_01].
The student identifies key factors influencing innovation success and manages them to achieve organizational goals [P7S_KK_02].
The student initiates and manages innovation projects, combining theoretical knowledge with practical aspects of innovation implementation [P7S_KO_02, P7S_KO_03].

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,

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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

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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) [1]	20	1,0

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[1] delete or add other activities as appropriate