



## COURSE DESCRIPTION CARD - SYLLABUS

Course name

Innovative Entrepreneurship

### Course

Field of study

Mechanical and Automotive Engineering

Area of study (specialization)

all specializations

Level of study

Second-cycle studies

Form of study

part-time

Year/Semester

2/3

Profile of study

general academic

Course offered in

Polish

Requirements

compulsory

### Number of

#### hours

Lecture

9

Laboratory classes

0

Other (e.g. online)

0

Tutorials

0

Projects/seminars

0

#### Number of credit points

1

### Lecturers

Responsible for the course/lecturer:

Prof. Zbigniew Kłos, Ph.D.(Eng.), D.Sc.

Responsible for the course/lecturer:

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Faculty of Civil and Transport Engineering

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### Prerequisites

**KNOWLEDGE:** Student has fundamental knowledge about management of organizations and quality issues

**SKILLS:** Student possesses ability of perceiving and associating of phenomena occurring in management of market organizations and is able to interpret them, to draw conclusions and to formulate opinions

**SOCIAL COMPETENCIES:** Student has the awareness of importance and understands the effects of taking of market oriented activities



### Course objective

Transmitting to the students the knowledge about the basic issues connected with conditions of undertaking innovative, market oriented, products

### Course-related learning outcomes

#### Knowledge

Has a basic knowledge of quality management systems.

He knows the main development trends in the field of mechanical engineering.

Has in-depth knowledge of entrepreneurship and business economics.

#### Skills

Can lead the team's work.

Can interact with other people as part of teamwork and take a leading role in teams.

He is able to independently plan and implement his own learning throughout life and direct others in this regard.

#### Social competences

Is ready to recognize the importance of knowledge in solving cognitive and practical problems and to consult experts in case of difficulties in solving the problem on its own.

Is willing to think and act in an entrepreneurial manner.

Is ready to fulfill professional roles responsibly, taking into account changing social needs, including:

- developing the professional achievements,
- maintaining the ethos of the profession,
- observing and developing the rules of professional ethics and acting towards the observance of these rules.

### Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Control test

### Programme content

Innovation and innovativeness: definitions, main types of innovations, leaders in innovation. Innovators: features of innovative entrepreneurs, examples of outstanding innovators. Innovative ideas: sources of innovative ideas, analysis of innovative ideas, criteria for choosing the promising schemes. Innovation process, commercialization: sources of innovation in innovation process, sources for transfers of knowledge and technology, factors relating to the objectives and effects of innovation, main factors hampering innovation activities, eco-innovations, different aspects of introduction of innovative products to the market



## Teaching methods

Lecture with multi-media presentation

## Bibliography

### Basic

1. Kłos Z., Innowacyjność i innowacje, Wyd. PP, Poznań 2017
2. Kłos Z., Innowacyjność i przedsiębiorczość innowacyjna. Wyd. PP, Poznań 2012
3. Cieślak J., Przedsiębiorczość dla ambitnych. Jak uruchomić własny biznes. wyd. II. Wyd. Akademickie i Profesjonalne, Warszawa 2008
4. Wissema J.G., Technostarterzy. Dlaczego i jak? Wyd. PARP, Warszawa 2005

### Additional

1. Innowacyjność w doskonaleniu produktów i organizacji. Red. Zb. Kłos i P. Kurczewski. Poznań 2011.
2. Problemy innowacyjnych przedsiębiorstw produkcyjnych. Red. H. Mizgajska, ZN nr 131. Wyd. UE w Poznaniu, Poznań 2010
3. Teaching Entrepreneurship. Cases for Education and Training. Ed. P. van der Sijde et al., Physica-Verlag, Heidelberg 2008

## Breakdown of average student's workload

	Hours	ECTS
Total workload	15	1,0
Classes requiring direct contact with the teacher	9	0,5
Student's own work (literature studies, preparation for test) <sup>1</sup>	6	0,5

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