



COURSE DESCRIPTION CARD - SYLLABUS

Course name

Foundations of innovativity [S2MiBP1E-PE>PI]

Course

Field of study

Mechanical and Automotive Engineering

Year/Semester

1/1

Area of study (specialization)

Product Engineering

Profile of study

general academic

Level of study

second-cycle

Course offered in

english

Form of study

full-time

Requirements

compulsory

Number of hours

Lecture

15

Laboratory classes

0

Other (e.g. online)

0

Tutorials

0

Projects/seminars

0

Number of credit points

1,00

Coordinators

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Lecturers

prof. dr hab. inż. Zbigniew Kłos
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Prerequisites

KNOWLEDGE: Student has fundamental knowledge about management of organizations and on innovativity 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 COMPETENCES:** Student has the awareness of importance and understands the effects of taking of market oriented activities.

Course objective

Transmitting to the students the knowledge of fundamental issues connected with conditions of undertaking innovative, market oriented, enterprises.

Course-related learning outcomes

Knowledge:

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

Is aware of the civilization effects of technology.

Has in-depth knowledge of entrepreneurship and business economics.

Skills:

Can communicate on specialist topics with a diverse audience.

Can lead the team's work.

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

Social competences:

It is ready to fulfill social obligations, inspire and organize activities for the benefit of the social environment.

It is ready to initiate actions for the public interest.

Is willing to think and act in an entrepreneurial manner.

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Control test

Programme content

Definition of innovation and innovativity. Main types of innovations. Personal features of innovative entrepreneurs. Ways of analysis of innovative ideas. Shaping of innovative business activities. Fundamental condition of commercialization of know-how. Phases of innovative enterprise development. Different aspects of introduction of innovative enterprises to the market. Basic knowledge about marketing in area of innovative technological and product solutions.

Teaching methods

Lecture with multi-media presentation

Bibliography

Basic:

1. J. G. Wissema, Towards third generation university. Technostarters, why and how? Edward Elgar Publishing, Cheltenham 2009
2. Oslo manual. 3rd edition. OECD Publishing, Paris 2005

Additional:

1. M. Winger, The innovation imperative. New Direction Press, Texas 2010
2. J. Verloop J.G., Wissema, Insight in innovation. Elsevier/Shell Global Solutions, 2006

Breakdown of average student's workload

	Hours	ECTS
Total workload	25	1,00
Classes requiring direct contact with the teacher	15	0,50
Student's own work (literature studies, preparation for laboratory classes/ tutorials, preparation for tests/exam, project preparation)	10	0,50