

## **Report – description of changes in the subject “Management of Innovation and Investment for Sustainable Development”**

Based on the results of research identifying the required level of digital, general and soft competencies for graduates of non-economic study programs within the framework of the International Visegrad Fund project “Innovative education according to the needs of Industry 4.0 principles in V4 countries” Strategic Grant No. 22320035, the following innovations were made in the content of the subject:

Principles of digital competencies were introduced, in particular the competencies: Protection of personal data and privacy, Protection of health and mental well-being, Browsing, searching and filtering data, information and digital content, Protection of equipment, Evaluation of data, information and digital content, Protection of the environment.

In the case of general competencies, teaching was supported by more frequent use of computer work and work with text in English to support the competencies: Computer literacy, Language proficiency in the official (national) language, Language proficiency in English.

In the case of soft skills, the innovation concerned the implementation of a student project in teams to support the following skills: Effective communication skills, Cooperation skills, Independence skills, Problem solving skills, Planning and organizing work skills, Performance skills.

The final test of the subject was supplemented with questions on the evaluation of data, information and digital content, effective communication, planning and organizing work and performance evaluation.

## **Course description**

Management of Innovations and Investments for Sustainable Development

Lecture 2 [HRS/WEEK] Seminar 1 [HRS/WEEK]

Course objectives: The goal of lessons is to present for students modern concept of innovation and investments management focused on an effectiveness and efficiency, sustainability under current scientific, technical and social conditions and challenges, relationship of innovation management with chemical production processes, environment, and sustainable development. Pro-innovation policy, innovation sources, project management methods are presented as well as assessment of innovation projects.

## Course syllabus – Changes

The Importance of Innovation for Business Growth. Social overlap of innovation. Current social and market challenges (globalization, industrial revolution 4.0, etc.) and impact on innovation and investment management.

Innovation for sustainable production and consumption of chemical products, corporate responsibility, customer / consumer responsibility.

Innovative value concepts for customers, value innovations. Performance skills.

Innovation Management Strategy. Digital competencies.

Sources of innovation opportunities outside the enterprise. Browsing, searching and filtering data, information and digital content

Sources of innovation in terms of business needs, pro-innovation climate (research base, resources, technology, knowledge, partnership). Problem solving skills, Planning and organizing work skills

Creation of innovation portfolio, evaluation of inventions. Protection of personal data and privacy, Protection of health and mental well-being

Applying project management in innovation and investment management.

Methods and tools of project management in innovation and investment management. Computer literacy

Evaluation of project management covering economic, social and environmental aspects.

Evaluation of innovation and investment efficiency including economic, social and environmental aspects - procedures, methods I. Performance evaluation.

Evaluation of innovation and investment efficiency including economic, social and environmental aspects - procedures, methods II.

Financing innovation and investment - sources of funding, the right capital structure.

The software application MS Project 2016 is used in this subject.