

Module description (syllabus): Zarządzanie technologią i innowacjami

Module title:	Zarządzanie technologią i innowacjami	ECTS	4
Module title translation:	Technology and innovation management		
Module for study direction:	Erasmus		

Module language: angielski		Study level: 2	
Study cycle: stacjonarne	Module status: kierunkowy - do wyboru	Semester number: 4 semestr letni	
Academic Year from which module description is valid :		2020/2021	Catalogue number: EKR-E-2S-4-31-KF-2020-ERA

Person in charge of the module:	Mariusz Maciejczak, dr hab.		
Teachers responsible for classes:	dr hab.. Mariusz Maciejczak, staff of the Department		
Unit responsible for the module:	Katedra Ekonomiki i Organizacji Przedsiębiorstw		
Faculty in charge:	Wydział Ekonomiczny		
Objectives of the module:	<p>a.to learn how to approach technology and innovation management initiatives in real organization and how to implement the best practices in a company. b.to have clear understanding which approaches, methods and software tools can be use for technology and innovation amangement. c.to obtain skills that a manager should possess in the modern technology-intensive and innovation-driven world of business.</p> <p>Lectures The course is designed as a holistic management approach to achieve high performance through agility and innovation. Course participants will get an insight into: technology and technological development; characteristics of technologies; models of the technology life cycle; elements of technology management; proof of concept; technology audit; management of R&D activities; characteristic of innovation; innovation diffusion models and impacts; innovation as management subjects; basics of intellectual property rights management; the commercialization of innovation and technology; importance of innovations in economic development.</p> <p>Classes</p>		
Teaching forms and number of hours:	a. lectures - no of hours: full time study: 30, part-time study. 0		
Teaching methods:	discussion, research project, problem solving, sorce texts analysis, consultation with the lecturer, lectures, case study, individual student projects, peer review		
Initial requirements and formal prerequisites:	brak		
Learning outcomes:	Knowledge - knows and understands: 1. to understand and describe the complexity of innovations and technologies.	Skills - can: 2. to apply innovation and technology management skills in different business spheres.	Competences - is ready for: 3. to take decisions in in the modern technology-intensive and innovation-driven world of business.
Assesement methods:	evaluation of the presentation during the class (effects: 1,2,3), evaluation of the work done as part of the student's own work (effects: 1,2,3), assessment of activities during classes (effects: 1,2,3), peer review (effects: 1,2,3)		
Formal documentation of the learning outcome:	tests, exams projects, individual student's projects, peer review		
Elements of the final grade and their weights:	evaluation of the presentation during the class - 10%, evaluation of the work done as part of the student's own work - 70%, assessment of activities during classes - 10%, peer review - 10%		
Place of teaching:	lecture room		

Teaching materials (obligatory and additional):

1. Burgelman R., Christensen C., Wheelwright S., 2003: Strategic Management of Technology and Innovation . McGraw-Hill/Irwin; 4 edition.]
2. United Nations, Industrial Development Organization, International Centre for Scientific and High Technology, Training Course on Technology Management.
3. Afuah A., 2002: Innovation Management: Strategies, Implementation, and Profits. Oxford University Press, USA; 2nd edition.

Remarks:

-+, ver-lw, MEO

Quantitative indicators describing the module:

Estimated total number of student work hours (contact and own work) necessary to achieve the learning outcomes assumed for the module - on this basis, complete the ECTS field:	75/0
The total number of ECTS points which the student receives in module requiring direct participation of academic teachers or other persons:	1.6/0 ECTS

Table of compliance of the directional learning outcomes with the effects of the module

Outcome category	Learning outcomes for module:	Reference to effects for the study program for the direction of study	The impact of classes on the directional effect*)
Knowledge	1. to understand and describe the complexity of innovations and technologies.	EK2_KW06	3
Skills	2. to apply innovation and technology management skills in different business spheres.	EK2_KU05	3
Competences	3. to take decisions in in the modern technology-intensive and innovation-driven world of business.	EK2_KK02	3

*) 3 - advanced and detailed, 2 - significant, 1 - basic