MODULE DESCRIPTION

Module code	full-time studies:	Z-ZIP1-E-731				
Module code	part-time studies:	Z-ZIPN1-E-731				
Module name	Technological Entrepreneurship					
Module name in Polish	Przedsiębiorczość technologiczna					
Valid from academic year	2019/2020					

MODULE PLACEMENT IN THE SYLLABUS

Field of study	MANAGEMENT AND PRODUCTION ENGINEERING
Level of education	1st degree
Studies profile	General
Form and method of conducting classes	Full-time and Part-time
Specialisation	Production and Innovation Management
Unit conducting the module	Department of Production Engineering
Module co-ordinator	Bożena Kaczmarska, PhD, DSc
Approved by:	Dariusz Bojczuk, PhD, DSc

MODULE OVERVIEW

Type of subject / group of subjects	Specialist subject
Module status	Non-compulsory
Language of conducting classes	English
Module placement in the syllabus - semester	Semester VII
Initial requirements	No requirements
Examination (YES/NO)	NO
Number of ECTS credit points	2

Method of conducting classes		Lecture	Classes	Laborato- ry	Project	Other
Per	full-time studies:	10		20		
semester	part-time studies:	6		12		

TEACHING RESULTS AND THE METHODS OF ASSESSING TEACHING RESULTS

Category	Category Symbol Learning outcomes							
	W01	Has the knowledge needed to establish a new business entity in a market economy.	ZIP1_W03 ZIP1_W13					
Knowledge	W02	ZIP1_W15 ZIP1_W16						
	W03	trends in management						
Skills	U01	Can prepare and present documentation of a new venture, taking into account technical and non-technical conditions.	ZIP1_U03 ZIP1_U04 ZIP1_U15					
Skills	U02	ZIP1_U11 ZIP1_U13						
Social	K01	ZIP1_K04						
competences	K02	K02 He is aware of the responsibility for the consequences of his activity.						

TEACHING CONTENTS

Method of conducting classes	Teaching contents
Lecture	The essence of entrepreneurship, technology entrepreneurship. Traits and skills of new venture leaders. From an idea to launching a company. Specifics of new technological ventures. New technolo-gical ventures - the essence and scale of the phenomenon. Start-up enterprises. Sources of new tech-solutions. Identification, selection and verification of ideas for new tech-solutions. Methods of analysis and evaluation of technical potential of new products. Issues of intellectual property protection. Methods of analysis and evaluation of market potential of new products, competition, competing products, potential market and market interest in a new product. Financing of technological ventures. Use of the INN SME method in the evaluation of new ventures. Strategies for commercialization of technological ventures. Forms of technological entrepreneurship support, institutions of innovative business environment. Kielce Technology Park - study visit.
Laboratory	Projects for conducting technological enterprises on the basis of new products - students' own concepts. The concept of creating a new business entity, legal forms of enterprises. Analysis of sources of business financing. Financial and accounting system. Key decisions on the financial and accounting system. Issues of tax law. Employment of employees and settlement of their wages. Issues of market analysis. Information systems in business operations. Presenting individual projects

METODS OF ASSESSING TEACHING RESULTS

Symbol	Methods of checking the learning outcomes (select X)									
	Oral exam	Written exam	Test	Project	Statement	Other				
W01				Х		X				
W02				Х		Х				
W03				Х		Х				
U01				Х		Х				
U02				Х		Х				
K01				Х		Х				
K02				Х						

FORM AND CONDITIONS OF PASSING

Form of classes	Form of credit	Passing conditions
Lecture	Credit with grade	Obtaining at least 50% of points from the developed project, presentation of the selected theoretical issue and activity during the classes.
Laboratory	Credit with grade	Obtaining at least 50% of points from the developed project, presentation of the selected theoretical issue and activity during the classes.

STUDENT WORKLOAD

Balance of ECTS points												
No.	Type of student's activity			5	Stude	ent's	wor	kloa	d			Unit
140.	Type of student's activity		full-time					part-time				
1.	Participation in the activities		С	Lb	Р	0	Lc	С	Lb	Р	0	h
•	1. Tantopation in the activities	10		20			6		12			
2.	Other (consultation, exam)	2		2			2		2			h
3.	Number of hours of a student's assisted work		34				22					h
4.	Number of ECTS credit points which are allocated for assisted work		1,4			0,9				ECTS		
5.	Number of hours of a student's unassisted work		16				28				h	
6.	Number of ECTS credit points which a student receives for unassisted work		0,6			1,1				ECTS		
7.	Work input connected with practical classes		33				33				h	
8.	Number of ECTS credit points which a student receives for practical classes	1,3				1,3					ECTS	
9.	Total number of hours of a student's work	50			50				h			
10.	Punkty ECTS za moduł 1 ECTS=25 hours	2						ECTS				

LITERATURE

- 1. Grayson D., Coulter C., Lee M. (2022), *The Sustainable Business Handbook, A Guide to Becoming More Innovative, Resilient and Successful*, Kogan Page.
- 2. Evers N. (2020), *Technology Entrepreneurship: Bringing Innovation to the Marketplace*, Red Globe Pr.
- 3. Guerrero M., Urbano D. (2022), *Technology Transfer and Entrepreneurial Innovations*, Springer Nature Switzerland AG.
- 4. Kaczmarska B., Gierulski W., Zajac J., Bittner A. (2021), *Modelling of Technology Valuation in the Process of its Commercialization*, Management and Production Engineering Review, Volume 12, Number 1, s. 85–93 (online: https://journals.pan.pl/Content/119523/art08.pdf)