



### COURSE SPECIFICATION

Course code	full-time studies	<b>Z-ZB-E-410a</b>
	part-time studies	-
Course title in English	<b>Transnational Technology Transfer</b>	
Course title in Polish	<b>Międzynarodowy Transfer Technologii</b>	
Valid from academic year	<b>2025/2026</b>	

### PLACEMENT IN THE TEACHING PROGRAM

Programme of study	<b>BUSINESS MANAGMENT</b>
Level of education	<b>1<sup>st</sup> degree</b>
Studies profile	<b>academic</b>
Form and mode of study	<b>full-time programme</b>
Scope	<b>all</b>
Academic unit responsible for the course	<b>Department of Production Engineering</b>
Course coordinator	<b>dr hab. Inż. Artur Bartosik, prof. uczelni</b>
Approved by	<b>dr hab. inż. Dariusz Bojczuk, prof. uczelni</b>

### GENERAL CHARACTERISTIC OF THE COURSE

Teaching block	<b>Directional subject</b>	
Course status	<b>Elective</b>	
Language of instruction	<b>English</b>	
Semester of delivery	full-time studies	<b>Semester IV</b>
	part-time-studies	-
Prerequisites	<b>NO</b>	
Exam (YES/NO)	<b>NO</b>	
ECTS	<b>3</b>	

Method of conducting classes		lecture	classes	laboratory	project	other
Number of hours per semester	full-time	<b>15</b>			<b>15</b>	
	part-time					



### LEARNING OUTCOMES

Category	Outcome code	Course learning outcomes	Reference to the directional learning effect
Knowledge	W01	Knows the concepts of innovation, entrepreneurship, commercialization of research results, technology transfer, the amount of R&D expenditure in Poland and the EU and knows the theses of the 'Europe 2030' Strategy in the aspect of building a knowledge-based economy.	ZB1_W02 ZB1_W07
	W02	Has knowledge of the mission and role of the European Technology Transfer Network (EEN) and knows the methodology of this network in supporting transnational technology transfer.	ZB1_W03
	W03	Knows examples of success stories in transnational technology transfer and knows the key stages of its implementation.	ZB1_W06
Skills	U01	Student uses acquired knowledge to resolve dilemmas that arise in building enterprise competitiveness. Analyzes the correlation between R&D expenditures and the growth of enterprise competitiveness.	ZB1_U01
	U02	Is able to use theoretical knowledge in the field of methodology for supporting transnational technology transfer in enterprise.	ZB1_U05
	U03	Is able to see the connections between engineering decisions and their impact on the dynamics of enterprise development. Has the ability to obtain information from databases and analyze and interpret it. Student can work individually and in a team.	ZB1_U02
	U04	The student knows and uses in English vocabulary related to the topic of classes.	ZB1_U12
Social competences	K01	Understands the need for lifelong learning to improve professional qualifications resulting from changing market conditions on a national and international scale and the rules for the use of protected works.	ZB1_K02 ZB1_K03
	K02	Is able to cooperate and work in a group and communicate effectively in order to solve a given problem related to technology transfer.	ZB1_K03

### COURSE CONTENT

Method of conducting classes	Course content
lecture	Module objective: innovation, entrepreneurship, commercialization of research results, investment in R&D in Poland and the EU, fundamental theses of the Europe 2030 Strategy, the methodology for implementing transnational technology transfer based on the experience of the Enterprise Europe Network (EEN). Success stories in international technology transfer.
project	Group presentation. Each student group develops a specific case of cross-border technology transfer in accordance with the methodology of the European network EEN and will present it to the student group. After the presentation, a discussion takes place, during which the participants formulate the strengths and weaknesses of the developed case



### METHODS FOR VERIFYING LEARNING OUTCOMES

Outcome code	Learning outcomes verification methods					
	Oral examination	Written examination	Test	Project	Report	Other
W01			X			
W02			X			
W03			X			
U01				X		X
U02				X		X
U03				X		X
U04				X		X
K01				X		X
K02				X		X

### FORM AND CONDITIONS OF ASSESSMENT

Form of classes	Assessment type	Assessment Criteria
lecture	Credit with grade	Semester colloquium
project	Credit with grade	Presentations of papers and student activity during classes. A student, in order to obtain a good grade, should be able to use the knowledge acquired - during lectures and as a result of self-education - to demonstrate the purposefulness of technology transfer and the method of its implementation. In order to obtain a very good grade, the student should additionally demonstrate the ability to make their own assessment of the impact of the technology transfer process on the economics of a given enterprise



### STUDENT WORKLOAD

ECTS Balance							
No.	Activity type	Student workload					Unit
		full-time					
1.	Scheduled contact hours	W	C	L	P	S	h
		15			15		
2.	Other (consultations, exams)	2			2		h
3.	Total number of contact hours	34					h
4.	Number of ECTS credits for contact hours	1,4					ECTS
5.	Number of hours of independent student work	41					h
6.	Number of ECTS points that a student obtains through independent work	1,6					ECTS
7.	Workload related to practical classes	38					h
8.	Number of ECTS credit points which a student receives for practical classes	1,5					ECTS
9.	Total number of hours of a student's work	75					
10.	ECTS credits for the course <i>1 1 ECTS credit =25 student learning hours</i>	3					ECTS

**W - LECTURE C - CLASSES L - LABORATORY P - PROJECT S - SEMINAR**

### READING LIST

1. Barski R, Bartosik A., Byczko S., Cieřlik J., Głodek P., Guliński J., Koszałka J., Książek E., Lityński K., Matusiak K., Nowakowska A., Stawarz E., Trzmielak D., Turyńska, A., System transferu i komercjalizacji wiedzy w Polsce – siły motoryczne i bariery. Wyd. PARP, Warszawa, 2010.
2. Matusiak, K.B., Innowacje i transfer technologii – słownik pojęć, Wyd. PARP, Warszawa, 2011.
3. Trzmielak D. Transfer technologii, przedsiębiorczość innowacyjna w rozwoju firm, Centrum Transferu Technologii, Wyd. Politechnika Łódzka, 2011.
4. Guliński J., Innowacje – podaż, popyt, instrumenty transferu, finansowanie. Wyd. Poznańskie, Poznań, 2000.
5. <https://een.ec.europa.eu>