

## ITEM CARD (SYLLABUS)

### Description of the course

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Code course		Course name	INTERNATIONAL TECHNOLOGY TRANSFER	
IBF/O/I/NS/B2.44b			MIĘDZYNARODOWY TRANSFER TECHNOLOGII	
Language		English		
Academic Year		2024/2025		
Direction of study		International Business and Finance		
Level of education (study)		Level 1		
Profile of education (study)		General academic		
Form of study		Extramural		
Semester / semesters		5		
Belonging to a course groups		B2-Elective courses specific to the field of study		
Course status		Elective		
Form of classes, hours, ECTS points		Form of classes	Number of hours	Number of ECTS points
		Lecture	8 [h]	3 ECTS
		Exercises	10 [h]	
		Seminar	[h]	
Relationship of subject	with profile of education (study)	Related to conducted scientific activity in the field of economics and finance		1 ECTS
	with qualifications	-----		ECTS
	with discipline	Economics and finance		3 ECTS
Form of teaching		traditional - classes organized at the University		
The criterion for the selection of students		All students of International Business and Finance		
Unit running course		Department of Business and International Finance		
Coordinator		Dr Izabela Młynarzewska-Borowiec/Dr Łukasz Zięba		
Faculty www address		http://weif.uniwersytetradom.pl		
E-mail, phone number of coordinator		i.mlynarzewska@uthrad.pl/l.zieba@uthrad.pl, (48) 361-74-91		

### COURSE OUTCOMES, METHODS OF TEACHING AND VERIFICATION OF THE EFFECTS OF EDUCATION

Purpose of the course:	The aim of the course is to familiarise students with the theoretical and practical foundations of international technology transfer in the modern global economy. The confrontation of relevant theoretical achievements with the practical experience
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	of many countries and regions is to be of major importance during the course.
Course teaching content:	<p>The course content is related to conducted scientific research.</p> <p><b>Contents of lecture (8h):</b></p> <ol style="list-style-type: none"> <li>1. The concept of technology (technical knowledge) and its characteristics - an overview of definitions, characteristics of general and specific technical knowledge (technology), embodied and disbodied. (W1, BN)</li> <li>2. Innovation policy and its role in the endogenous acquisition of new technological solutions and technology import - Objectives and tools of innovation policy conducted on a regional, national and international scale. Innovation activities of enterprises. The role of innovation policy in the creation of technical knowledge. The role of innovation policy in technology import (W1, BN)</li> <li>3. The concept of international technology transfer - Basic technology carriers on a national and international scale. Forms of international technology flows. Types and characteristics of technology transfer channels. (W2)</li> <li>4. Causes and effects of international technology transfer in the light of theory - Causes and effects in the light of neotechnological theories of international trade and other contemporary theories of international exchange (W2)</li> <li>5. Written work</li> </ol> <p><b>Contents of exercises (10h):</b></p> <ol style="list-style-type: none"> <li>1. Transnational corporations and international technology transfer - the essence of TNCs, the innovative potential of TNCs, technology transfer channels chosen by transnational corporations, the role of TNCs in the creation and flow of technology (FDI) on an international and local scale (U1, U2, K1)</li> <li>2. Determinants of the development of international technology transfer after World War II - Legal conditions and barriers to technology diffusion on an international scale. Absorption capacity and technological potential of countries as basic measures of the technological potential of countries and regions - comparative analysis of selected countries (EU countries, China, Japan, USA) (U1, U2, K1)</li> <li>3. Intensity and directions of transfer of embodied technical knowledge in the light of empirical analyzes - selected countries (including USA, Japan, China, EU-28 countries): foreign direct investments, trade in high-tech products, etc. – students' project and its presentation (U1, U2, K1)</li> <li>4. Intensity and directions of transfer of disbodied technical knowledge in the light of empirical analyzes - selected countries (including USA, Japan, China, EU-28 countries) - licensing operations and patents, copyrights, trademarks – students' project and its presentation (U1, U2, K1)</li> <li>5. Poland's place in international technology transfer - Poland's innovative potential and absorption capacity, exchange of embodied and disbodied technical knowledge between Poland and selected partners (e.g. EU countries, USA, China, Japan, South Korea) – students' project and its presentation (U1, U2, K1)</li> <li>6. Transnational corporations and their impact on technology transfer between Poland and selected countries - the impact of TNCs on Poland's technological potential and the exchange of technical knowledge in various forms - selected examples –</li> </ol>

	students' project and its presentation (U1, U2, K1)
Method of teaching:	<i>instructional methods (lecture including multimedia techniques); practical methods (demonstration, analytical exercises)</i>
Grading criteria, criteria for assessing learning outcomes, method of calculating the final grade:	<i>The condition for passing the course is achieving all the required learning outcomes specified for the course.. Lecture - evaluation based on a written work. Exercises - the grade is determined by the following: 50% project, 30% presentation, 20% activity in class</i>

Education effects for the course in relation to the direction effects and form of classes				Verification methods of learning outcomes (form check)	
Number of education effect	Description effects of education for the subject (PEU) Student who has completed the course (W) knows and understands/(U) is able to /(K) is ready to:	Directional learning effect (KEU)	Form of realization of teaching	Examination form	Form check
W1	knows and understands the nature, forms, importance of technical knowledge in the development of enterprises, countries, regions and the whole world economy, has knowledge of the objectives, measures and tools of innovation policy	K_W04 K_W10	Lecture	Pass with a grade	Written work
W2	knows and understands the concept of international technology transfer, its forms, channels, causes and effects from both theoretical and practical perspectives	K_W03	Lecture	Pass with a grade	Written work
U1	is able to use theoretical knowledge to analyse phenomena and processes related to the creation and transfer of technology in the contemporary world economy and to present relevant analyses in the form of a written project and a presentation during classes	K_U02 K_U08	Exercises	Pass with a grade	Evaluation based on project and its presentation
U2	using appropriately selected statistical material, is able to correctly identify and analyse processes of technology creation and transfer within selected groups of countries	K_U04 K_U05	Exercises	Pass with a grade	Evaluation based on project and its presentation
K1	is aware of the usefulness of his/her knowledge and is prepared to keep abreast of technology transfer phenomena on a regional and global scale	K_K01	Exercises	Pass with a grade	Activity during course

Recommended reading, literature supplement, teaching aids	
1.	Audrets D.B., E.Lehmann, A.N. Link, <i>Handbook of Technology Transfer</i> , Elgar Publishing, UK, 2022
2.	Mietzner D., Schultz Ch., <i>New Perspectives in Technology Transfer</i> , Springer, 2022
3.	Lehmann E., Audretsch D.B., Link A.N., Starnecker A., <i>Technology Transfer in a Global Economy</i> , Springer-Verlag NY Inc., 2015
4.	Młynarzewska- Borowiec I., <i>Neoclassical and technological catching-up as the channels of the real convergence process in the European Union</i> , International Journal of Business and Economic Sciences Applied Research, Vol.10, No.2, 2017
5.	Młynarzewska- Borowiec I., <i>Digital competitiveness gap between the US and EU member states in the 21st century</i> , European Research Studies Journal, vol.25 (4), 2022
<i>A detailed list of additional literature, web sources and teaching aids will be provided by a teacher during the first class</i>	

Student workload needed to achieve the assumed learning outcomes - balance of ECTS points
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Participation in classes, activities	Student's working hours [h]		
	Other hours. Contact (IGK)	Classes without a teacher – student's own work (ZBN)	Classes
Participation in Lectures/ Seminars	X	X	8[h]
Participation in Exercises/Laboratories	X	X	10[h]
Participation in the Consultation	5[h]	X	X
Preparing to lectures/ exercises/seminars Preparation for an examination	X	52[h]	X
Summary of student's workload	5[h]/0,2 ECTS	52 [h]/ 2,1 ECTS	18[h]/ 0,7 ECTS
Points of ECTS for subject	75 [h] / 3 ECTS		

Additional information and remarks
<p>For students with special needs, including those with disabilities and chronic illnesses, the methods and forms of verifying learning outcomes specified above (in the course syllabus) are appropriately adjusted to meet the individual needs of these students.</p> <p>"The detailed rules and rights of students with special needs, including those with disabilities and chronic illnesses, regarding participation, assessment, and examinations, are specified in the Study Regulations, Study Rules, and Procedures for Ensuring Accessibility of the Educational Process for Students with Special Needs, including those with disabilities and chronic illnesses."</p>