

## ITEM CARD (SYLLABUS)

### Description of the course

Code course	Course name	<i>Statistics 1</i>		
<i>IBF/O/INS/A.2</i>		<i>Statystyka 1</i>		
Language	English			
Academic Year	2024/2025			
Direction of study	<i>International Business and Finance</i>			
Level of education (study)	<i>Level 1</i>			
Profile of education (study)	<i>General academic</i>			
Form of study	<i>Extramural</i>			
Semester / semesters	2			
Belonging to a course groups	<i>A-Fundamental courses</i>			
Course status	<i>Compulsory</i>			
Form of classes, hours, ECTS points	Form of classes	Number of hours	6 ECTS	
	Lecture	15 [h]		
	Exercises	15 [h]		
	Seminar	[h]		
Relationship of subject	with profile of education (study)	<i>Related to conducted scientific activity in the field of economics and finance</i>		3 ECTS
	with qualifications	-----		ECTS
	with discipline	Economics and finance		6 ECTS
Form of teaching	<i>traditional - classes organized at the University</i>			
The criterion for the selection of students	All students of International Business and Finance			
Unit running course	Department of Mathematics			
Coordinator	dr inż. Monika Maj			
Faculty www address	<a href="http://weif.uniwersytetradom.pl">http://weif.uniwersytetradom.pl</a>			
E-mail, phone number of coordinator	<a href="mailto:m.maj@uthrad.pl">m.maj@uthrad.pl</a> (48) 361-78-12			

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

Purpose of the course:	The aim of the course is to get acquainted with the basic statistic measures used to describe economic and financial phenomemons.
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Course teaching content:	<p>The course content is related to conducted scientific research.</p> <p><b>Lecture content:</b></p> <ol style="list-style-type: none"> <li>1. Basic concepts and definitions. Classification of statistical data and the scale of their measurement. Stages of organisation of the statistical research. Tabular and graphic presentation of the data. (5h, W1, K1, BN)</li> <li>2. Analysis of the structure of the one-dimensional collective. (4h, W1, U1, U2, K1, BN)</li> <li>3. Analysis of interdependence. (3h, W1, K1, BN)</li> <li>4. Analysis of the dynamics. (3h, W1, K1, BN)</li> </ol> <p><b>Exercises content:</b></p> <ol style="list-style-type: none"> <li>1. Sources of statistical data collection. Presentation tabular and graphical statistical data. (4h, U1, U2, K1, BN)</li> <li>2. Computational exercises in the field of structure analysis of a one-dimensional community. (3h, U1, U2, K1, BN)</li> <li>3. Computational exercises in the field of interdependence of phenomena. (3h, U1, U2, K1, BN)</li> <li>4. Computational exercises in the field of dynamics of phenomena. (3h, U1, U2, K1, BN)</li> <li>5. Written test (2h)</li> </ol>
Method of teaching:	<p><i>instructional methods (lecture including multimedia techniques with elements of discussion);</i>  <i>practical methods (demonstration, analytical exercises)</i></p>
Grading criteria, criteria for assessing learning outcomes, method of calculating the final grade:	<p><i>The condition for passing the course is achieving all the required learning outcomes specified for the course.</i>  Lecture - evaluation based on a written exam.  Exercises - the grade is determined by the following:  Written test (45%)+ project(45%)+ activity during course (10%)</p>

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	Student knows basic statistical concepts, knows the statistical indicators used to statistical description in the scope of analysis structure, interdependence of phenomena and dynamics of phenomena	K_W01 K_W05	Lecture	Pass with a grade	written exam
U1	Student can obtain statistical data	K_U05	Exercises	Pass with a grade	project
U2	Student can calculate and interpret values of known statistical measures to describe the data and is able to carry out an analysis of correspondence variables, can analyze time series	K_U05 K_U15	Exercises	Pass with a grade	written test
K1	Student is ready to self design and execution of the statistical research	K_K01	Exercises	Pass with a grade	discussion/ activity during course

Recommended reading, literature supplement, teaching aids
<p>1.Lane D. M. (ed.), Introduction to Statistics, 2003, online edition,  2.<a href="https://onlinestatbook.com/Online_Statistics_Education.pdf">https://onlinestatbook.com/Online_Statistics_Education.pdf</a>; ch. 1-4, 6, 14, 5. Lee Ch.-F., Lee J. C., Lee A.C., Statistics for Business and Financial Economics, 3rd ed., Springer, 2013 (BG UTH - open access) – chapters: 1-4, 13,</p>

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3. <https://www.spps.org/cms/lib/MN01910242/Centricity/Domain/859/Statistics%20Textbook.pdf>

4. [https://onlinestatbook.com/Online\\_Statistics\\_Education.pdf](https://onlinestatbook.com/Online_Statistics_Education.pdf)

*A detailed list of additional literature, web sources and teaching aids will be provided by a teacher during the first class*

Student workload needed to achieve the assumed learning outcomes - balance of ECTS points			
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	15[h]
Participation in Exercises/Laboratories	X	X	15[h]
Participation in the Consultation	7[h]	X	X
Preparing to lectures/ exercises/seminars Preparation for an examination	X	113[h]	X
Summary of student's workload	7[h]/0,3ECTS	113 [h]/ 4,5ECTS	30[h]/ 1,2ECTS
Points of ECTS for subject	150[h] / 6 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>