

**A COURSE SYLLABUS – DOCTORAL SCHOOL  
REGARDING THE QUALIFICATION CYCLE FROM 2021 TO 2022**

<b>GENERAL INFORMATION ABOUT COURSE</b>				
Course title	<b>The methodology of scientific research</b>			
Name of the unit running the course	<b>Doctoral School at University of Rzeszów</b>			
Type of course (obligatory, optional)	<b>obligatory</b>			
Year and semester of studies	Year I, winter semester			
Discipline	Economy and Finance			
Language of Course	polish			
Name of Course coordinator	Dr hab. Ryszard Kata, prof. UR			
Name of Course lecturer	Dr hab. Ryszard Kata, prof. UR			
Prerequisites	Knowledge of the theory of economics provided by the curriculum of economic studies. Knowledge of basic statistics and econometrics. The student should also have the ability to apply the tools of economic analysis and knowledge at the Bachelor's level inspiring to formulate economic research problems.			
<b>BRIEF DESCRIPTION OF COURSE</b>				
<b>(a synthetic description of the content and objectives course; 100-200 words)</b>				
<p>To introduce students to the issues of the methodology of economic research and prepare to conduct economic research independently. To familiarize students with the variety of research problems in the field of economic sciences (economics, finance and management), the problem of choosing research methods and techniques to the essence of the problem.</p> <p>To develop the knowledge and skills necessary to design economic research, collect empirical materials, process them using different methods of analysis and present the results of economic research and conclusions. Develop the skills of effective ways to acquire knowledge, carry out their own research work, present their results.</p> <p>To familiarize students with the variety of ways and methods of studying phenomena and socio-economic processes, due to their stochastic nature, as well as their complexity and variability over time. The classes are also intended to help students acquire the ability to work in research teams, to present their own research results, to conduct discussions and to articulate and defend their own views.</p>				
<b>COURSE LEARNING OUTCOMES AND METHODS OF EVALUATING LEARNING OUTCOMES</b>				
Learning outcome	The description of the learning outcome defined for the course	Relation to the degree programme outcomes at the level 8 PRK (symbol)	Learning Format (Lectures, classes,...)	Method of assessment of learning outcomes (e.g. test, oral exam, written exam, project,...)
<b>Knowledge (no.)</b>				
1.	The student knows the methodology of contemporary economics in her various currents and the methods of conducting economic research. The student knows the principles of organizing and carrying out economic research and the workshop used to	<b>P8S-WG/1 P8S-WG/3</b>	Lecture, classes	assessment of knowledge based on discussion in classes

	understand and explain the processes occurring in the modern economy.					
2.	The student knows the criteria for the development of scientific research agendas, the rules for carrying out research processes and for disseminating research results and their evaluation from the point of view of scientific knowledge.	P8S-WG/4	Lecture, classes	assessment of knowledge based on discussion in classes; presentation, research project		
3.	The student knows the main development trends in the discipline of economics and finance.	P8S-WG/2	Lecture	assessment of knowledge based on discussion in classes; presentation		
<b>Skills (no.)</b>						
1.	The student analyzes socio-economic phenomena and processes in depth. The student is able to carry out a critical reflection on the essence and conditionalities of socio-economic processes.	P8S-UW/1	Lecture, classes	assessment of knowledge based on discussion in classes; presentation		
2.	The student identifies and formulates economic research problems, develops hypotheses and verifies them in the research process. The student develops research methods, techniques and tools.	P8S-UW/1	Lecture, classes	presentation, research project		
3.	The student resolves complex scientific problems and formulates research conclusions. The student prepares various types of scientific work as a description of the results of the research.	P8S-UW/1	Classes	presentation, research project		
<b>LEARNING FORMAT – NUMBER OF HOURS</b>						
Semester (no.)	Lectures	Seminars.	Lab classes	Internships	Others	ECTS
I	10	20	—	—	—	0
<b>METHODS OF INSTRUCTION</b>						
<ul style="list-style-type: none"> <li>• guided discussion, analysis and interpretation of source texts;</li> <li>• analysis of data on public and economic statistics;</li> <li>• formulating research problems, organizing and conducting empirical studies;</li> <li>• case studies;</li> <li>• presentation of own statistical analyses and results of the primary research.</li> </ul>						
<b>COURSE CONTENT</b>						
<b>1. Lectures/ Seminars:</b> Introduction to the methodology of economics. Types of scientific troubleshooting methods. The role of methodology in the development of economic research. The current economic and financial trends and their methodological apparatus. Methodological problems of economic research - the structure of the cognitive process.						

Planning stages of the research process.  
 Characteristics of the selected empirical test methods, techniques and tools.  
 Conduct scientific observation and formulate research conclusions.

**2. Seminars / Lab classes / Others:**  
 Characteristics of selected methods of analysis.  
 Statistical methods in economic sciences – key issues.  
 Public and economic statistics as a source of empirical data.  
 Surveys and interviews. Experimental and other methods.  
 Objectives and organization of empirical research (on the example of a selected socio-economic research problem).  
 Design and conduct empirical studies.  
 Presentation of results of own research in the socio-economic sphere – research project.  
 Editorial and scientific works in the field of economic sciences.

### COURSE ASSESSMENT CRITERIA

Assessment credit based on:  
 – to obtain, process and present statistics on a selected socio-economic issue (evaluation);  
 – to carry out an economic research project based on primary data: surveys, economic statistics, other methods (evaluation)  
 – participate actively in discussions during classes,  
 A positive assessment depends on the student's mastery of the curriculum content to at least the following degree:- 55% (3,0); 65 % (3,5); 75% (4,0); 85% (4,5); 95% (5,0)

### TOTAL PhD STUDENT WORKLOAD REQUIRED TO ACHIEVE THE INTENDED LEARNING OUTCOMES – NUMBER OF HOURS AND ECTS CREDITS

Activity	Number of hours
Scheduled course contact hours	30
Other contact hours involving the teacher (consultation hours, examinations)	2
Non-contact hours – student`s own work (preparation for classes or examinations, project, etc.)	68
<b>TOTAL NUMBER OF HOURS</b>	100
<b>TOTAL NUMBER OF ECTS CREDITS</b>	0

### INSTRUCTIONAL MATERIALS

Compulsory literature:	Stachak S., <i>Fundamentals of methodology of economic sciences</i> , Book and knowledge, Warsaw 2006. Blaug M., <i>Methodology of economics</i> , WN PWN, Warsaw 1995.
Complementary literature:	Balicki W., <i>Lectures on methodology of economic sciences</i> . Publisher WSB in Poznan. Poznan 2002. Adamkiewicz-Drwiłło H.G., <i>Contemporary methodology of economic sciences</i> , House of the Promoter of TNOiK, Torun 2008. Sedlacek T., Orrell D., <i>The Twilight Homo Economicus</i> , Publisher Studio EMKA, Warsaw 2012. Babbie E.R., <i>Fundamentals of social research</i> , WN PWN, Warsaw 2009. Apanowicz J., <i>Methodological conditions of scientific work</i> . Difin. Warsaw 2005.