

## RESEARCH METHODOLOGY AND METHODS IN PSYCHOLOGY

<b>Credit points</b>	6 CP		
<b>Study course annotation</b>	The course introduces students to the introduction to the methodology of scientific research, its structure and principles, theoretical foundations and principles. The course gives students the opportunity to gain knowledge about the basic principles of designing and conducting surveys, interviews and observations, experimental research, as well as evaluations of their measurements: reliability and validity, and also develops their skills and ability.		
<b>Aim of the study course</b>	Create a student's understanding of the technology for designing scientific research, introduce the basic principles of developing basic research methods (questionnaires, interviews, observations and experiments), develop skills and abilities to conduct them.		
<b>Objectives of the course</b>	<ul style="list-style-type: none"> <li>• To give an idea of the basics of scientific research.</li> <li>• To form an idea of the types of psychological research.</li> <li>• To develop skills for the development and use of basic methods of psychological assessment.</li> <li>• To give an idea of validity and reliability.</li> </ul> <p>To provide knowledge about the method of interviewing, observing, experimenting, interviewing, as well as the technology of their construction.</p>		
<b>Study course results</b>	<b>Knowledge</b>	<b>Skills</b>	<b>Competences</b>
	<ul style="list-style-type: none"> <li>• Understanding the basics of psychological research methodology;</li> <li>• Knowledge of the procedures for developing an interview, observation, experiment, survey, as well as the technology of their design;</li> <li>• Knowledge of evaluative measurements (influence reliability)</li> <li>• Knowledge of various types of sampling and strategies for its construction</li> </ul>	<ul style="list-style-type: none"> <li>• Ability to use an innovative approach in developing ideas for psychological research.</li> <li>• Ability to work with scientific literature and use international databases (EBSCO, etc.);</li> <li>• Ability to analyze scientific literature, design research design, formulate a hypothesis and research questions;</li> <li>• Ability to draw conclusions about the validity and reliability of the test or survey, to adapt the selected method.</li> <li>• Ability to design questionnaires, conduct research using these methods</li> </ul>	<ul style="list-style-type: none"> <li>• Ability to integrate scientific knowledge from various fields of psychology;</li> <li>• Ability to critically perceive and analyze information</li> <li>• Understanding of scientific methods and their creative application in various developing areas of psychology;</li> <li>• Observe ethics when conducting research and the impact of its results on the environment and society.</li> <li>• Students can recognize and take responsibility for their professional decisions and actions.</li> </ul>
<b>Study course content</b>	<b>Topics</b>		
	1	Scientific research, its structure and principles.	
	2	Measurements. Validity, reliability.	
	3	Types of measurement scales (nominal, interval,	

		ordinal, relationship scale)
	4	The sample, its types and methods of creation (probabilistic, random, nonrandom)
	5	Study interviews and case studies. Key components of interview planning. Types of interviews: structured unstructured.
	6	Polling method. Population, sampling, designs: single survey, before and after design, control comparison of two groups, design of two before and after groups. Types of questions.
	7	Observation method. Included, not included observation. Sampling, designs.
	8	Introduction to experimental research and its main characteristics. Variable, experimental designs.
<b>Form of assessment:</b>	Exam	
<b>Obligatory literature:</b>		
<ol style="list-style-type: none"> <li>1. Bryman A. (2012) <i>Social Research Methods</i> /. – 4th ed. – Oxford University Press</li> <li>2. Denzin, N.K., Lincoln Y.S. (2014). <i>The Sage handbook of qualitative research</i>. 3th edition. Thousand Oaks, CA: Sage publications Ltd. (CD)</li> <li>3. Goodwin, K.A., &amp; Goodwin, C. J. (2016) <i>Research in Psychology: Methods and Design</i>. Hoboken, NJ John Wiley &amp; Sons. ISBN-13: 978-1119330448 (CD) <a href="https://books.google.lv/books?id=QBCIDQAAQBAJ&amp;printsec=frontcover&amp;hl=ru#v=onepage&amp;q&amp;f=false">https://books.google.lv/books?id=QBCIDQAAQBAJ&amp;printsec=frontcover&amp;hl=ru#v=onepage&amp;q&amp;f=false</a></li> <li>4. Howitt D., Cramer D (2016). <i>Research methods in psychology</i>. (CD)</li> </ol>		
<b>Additional reading:</b>		
<ol style="list-style-type: none"> <li>1. Aberson, C.L. (2010) <i>Applied Power Analysis for the Behavioral Sciences</i>. Publisher: Routledge Academic 272 pp</li> <li>2. Neuman W.L. (2006) <i>Social Research Methods. Qualitative and Quantitative Approaches</i> /. -6th ed. - Pearson</li> <li>3. Field A. (2009). <i>Discovering statistics using SPSS</i>. 3rd edition. Los Angeles, London: Sage. (CD)</li> <li>3. Plotka, I., Blumenau, N., Igonin, D., &amp; Bolshakova, A. (2019). Research of relationships between implicit and explicit healthy or unhealthy food related cognitions. In V. Lubkina, S. Usca, &amp; A. Zvaigzne (Eds.), <i>Society. Integration. Education. Proceedings of the International Scientific Conference May 26th-27th, 2019, V.I</i> (pp. 97-121). Rezekne: Rezeknes Academy of Technologies. Thomson Reuters Web of Science database, OpenAIRE, WordCat databases. ISSN 2256-0637. It is available at DOI: <a href="https://doi.org/10.17770/sie2019vol7.3888">10.17770/sie2019vol7.3888</a></li> <li>4. Plotka, I., Blumenau, N., Igonin, D., &amp; Vinogradova, Z. (2021). Research of the context effects of graded affective valence videos on the results of measurements of implicit attitudes towards risky driving. In L. Malinovska (Ed.), <i>Proceedings of 20-th International Scientific Conference Engineering for Rural Development Jelgava, Latvia, 26-28.05.2021</i>. Latvia University of Agriculture Faculty of Engineering (pp. 1244-1259). Scopus. DOI: 10.22616/ERDev.2021.20.TF272.</li> <li>5. Urbane, B., Plotka, I., Blumenau, N., &amp; Igonin, D. (2021). Measuring the affective and cognitive bases of implicit and explicit attitudes towards domestic and foreign food brands. In V. Dislere (Ed.), <i>Proceedings of the 14th International Scientific Conference "Rural Environment, Education, Personality. 7-8.05.2021, REEP-2021". Vol. 14</i>. Latvijas Lauksaimniecības Universitāte (pp.216-233). DOI: 10.22616/REEP.2021.14.024.</li> <li>6. 2020</li> </ol>		



**Other sources of information:**

1. <http://biblio.bsa.edu.lv>
2. Baltic Journal of Psychology,
3. Experimental Psychology
4. Learning Memory Cognition,
5. Psychological Review

Changes and additions to the program and literature list are possible during the study process