



## EXPERIMENTAL PSYCHOLOGY I

<b>Credit points</b>	3 CP		
<b>Study course annotation</b>	The goal of the course is to teach students the basics of organizing and planning an experiment. To form an idea of the experiment and its classification, as well as the concepts of “validity”, “sampling methods”, “experiment designs”, “variables” and “experimental error”. To form an idea of statistical tests necessary for processing research data, and also to form the ability to draw up an experimental report.		
<b>Aim of the study course</b>	To acquaint students with the theory of experimental design and the technology of its implementation.		
<b>Objectives of the course</b>	<ul style="list-style-type: none"> <li>• Provide knowledge about the procedure and basic characteristics of the experiment.</li> <li>• Provide an understanding of the basics of experiment design.</li> <li>• Introduce various experimental and quasi-experimental plans.</li> <li>• To teach how to plan and conduct an experiment, as well as apply statistical methods to solve psychological problems.</li> </ul>		
<b>Study course results</b>	<b>Knowledge</b>	<b>Skills</b>	<b>Competences</b>
	<ul style="list-style-type: none"> <li>• Introduce the student to the basics of experiment planning theory;</li> <li>• Provide in-depth knowledge of the technology of the experiment, including a critical understanding of theory and principles;</li> <li>• Consider the basic concepts related to the quality of the experiment and the concept of validity;</li> </ul>	<ul style="list-style-type: none"> <li>• Ability to read and critically analyze scientific literature;</li> <li>• Adequately select the design of the experiment in accordance with the type of study;</li> <li>• Choose adequate sampling strategies.</li> <li>• Ability to mastery and innovative approaches to solving complex and unpredictable problems in conducting research</li> </ul>	<ul style="list-style-type: none"> <li>• Understanding of scientific methods and their creative application in various developing areas of psychology;</li> <li>• The formation of cognitive skills - the ability to understand and use, analyze and synthesize information obtained from various sources.</li> <li>• Ability to independently develop experimental research.</li> <li>• Take responsibility for decision making in unpredictable research environments</li> <li>• Observe the ethics of conducting psychological research</li> </ul>
<b>Study course content</b>	<b>Topics</b>		
	1	The subject of experimental psychology and tasks	
	2	Experiment as the main method of psychological research	
	3	Hypothesis and its types	
	4	Variables in the experiment (independent, dependent, secondary)	
	5	The selection and methods of its formation	
	6	Experimental and non-experimental plans	
	7	Validity and its types	
8	Psychological experiment as a joint activity		
<b>Form of assessment:</b>	Exam		
<b>Obligatory literature:</b>			



1. Bryman, A. (2012). *Social Research Methods*. 4th ed. Oxford University Press.
2. Denzin, N.K., & Lincoln, Y.S. (2014). *The Sage handbook of qualitative research*. 3th edition. Thousand Oaks, CA: Sage publications Ltd. (CD).
3. Goodwin, K.A., & Goodwin, C. J. (2016) *Research in Psychology: Methods and Design*. Hoboken, NJ John Wiley & Sons. ISBN-13: 978-1119330448 (CD)  
<https://books.google.lv/books?id=QBCIDQAAQBAJ&printsec=frontcover&hl=ru#v=onepage&q&f=false>.
4. Howitt, D., & Cramer, D. (2016). *Research methods in psychology*. (CD)

**Additional reading:**

1. Abdi, H., Edelman, B., Valentin, D., & Dowling, J. (2009) *Experimental Design & Analysis for Psychology*, 978-0-19-929988-1, 560 pp.
2. Plotka, I., Igonin, D., & Blumenau, N. (2016). *Implicit Attitudes and Measurements: Effect of Context*. *International Business: Innovations, Psychology and Economics*, 44(2(12)), 7-150. Business Source Complete (EBSCO); Business Source Corporate Plus (EBSCO), Index Copernicus Journal Master List. Online ISSN 2345-0932. Monograph. Is available at [http://www.kuryba.lt/failai/zurnalai/2016\\_2.pdf](http://www.kuryba.lt/failai/zurnalai/2016_2.pdf).
3. Plotka, I., Urbane, B. & Blumenau, N. (2022). *Relationship between implicit and explicit attitudes towards domestic and foreign food brands and personality traits*. *Proceedings of 21-th International Scientific Conference Engineering for Rural Development Jelgava, Latvia, 25.-27.05.2022*. Latvia University of Agriculture Faculty of Engineering. Scopus. <https://www.tf.ltu.lv/conference/index.php?topicID=8> DOI: 10.22616/ERDev.2022.21.TF150
4. Plotka, I., Blumenau, N., Igonin, D., & 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.), *Proceedings of 20-th International Scientific Conference Engineering for Rural Development Jelgava, Latvia, 26-28.05.2021*. Latvia University of Agriculture Faculty of Engineering.
5. Urbane, B., Plotka, I., Blumenau, N., & Igonin, D. (2021). *Measuring the affective and cognitive bases of implicit and explicit attitudes towards domestic and foreign food brands*. In V. Dislere (Ed.), *Proceedings of the 14th International Scientific Conference "Rural Environment, Education, Personality. 7-8.05.2021, REEP-2021"*. Vol.14. Latvijas Lauksaimniecības universitāte (pp.216-233). DOI: 10.22616/REEP.2021.14.024

**Other sources of information:**

1. <http://biblio.bsa.edu.lv>
2. *Journal of Personality & Social Psychology*. [www.apa.org/journals/psp](http://www.apa.org/journals/psp)
3. *European Journal of Psychological Assessment*. [www.hhpublish.com/journals/ejpa](http://www.hhpublish.com/journals/ejpa)
4. *Psychological Science: Research, theory, & Application in Psychology and Related Sciences*. [www.psychologicalscience.org](http://www.psychologicalscience.org)
5. *Methodology European Journal of Research Methods for the Behavioural and Social Sciences*. [www.hogrefe.com/journals/methodology](http://www.hogrefe.com/journals/methodology)
6. *Experimental Psychology*. [www.hhpublish.com/journals/expsy](http://www.hhpublish.com/journals/expsy)

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