



EXPERIMENTAL PSYCHOLOGY II

Credit points	3 CP		
Study course annotation	The course allows the student to develop skills in research work, planning and conducting a psychological experiment, and also learn how to formulate research problems and formulate goals and objectives, put forward hypotheses, identify independent and dependent variables, build experimental designs and algorithms for processing and analyzing research results with adequate mathematical apparatus.		
Aim of the study course	To form skills for planning, conducting an experiment, as well as data analysis and interpretation.		
Objectives of the course	<ul style="list-style-type: none"> • Provide knowledge about the procedure and basic characteristics of the experiment; • Provide an understanding of the basics of experiment design; • Introduce various experiment designs; • To teach how to plan and conduct an experiment, as well as apply statistical methods to solve psychological problems; • To teach to define dependent and independent variables, to select adequate experimental schemes; • Teach you how to work with equipment and measuring instruments • Provide initial knowledge of implicit measurements. 		
Study course results	Knowledge	Skills	Competences
	<ul style="list-style-type: none"> • Knowledge of the fundamentals of experimental design theory; • Knowledge of the technology of the experiment, including a critical understanding of theory and principles; • Knowledge of research objectives, design, validity, and empirically sound conclusions; • Knowledge of the laws of human cognitive processes (attention, perception, memory, thinking) • Knowledge of basic concepts related to the 	<ul style="list-style-type: none"> • Skills to read and critically analyze scientific literature; • The ability to adequately select the design of the experiment in accordance with the type of study • Ability to choose adequate sampling strategies. • Skills for conducting research in the laboratory • Ability to conduct research independently. • Ability to present the study in the form of an experimental report, which consists of a theoretical introduction, a method of results and • their discussion. 	<ul style="list-style-type: none"> • Understanding of scientific methods and their creative application in various developing areas of psychology; • Ability to generalize knowledge of methods from various disciplines of psychology and other sciences through psychological research. The formation of cognitive skills • The ability to understand and use, evaluate, analyze and synthesize information obtained from various sources. • The ability to develop and conduct experimental research independently. Ability to take responsibility for decision making in unpredictable research conditions

	<p>quality of the experiment and the concept of validity;</p> <ul style="list-style-type: none"> • Knowledge about the assessment of the quality of measurements in various research methods (reliability and validity) 	<ul style="list-style-type: none"> • Skills to assess the quality of measurements used in the study • Ability to innovative approaches to solving complex and unpredictable problems in the study 	<ul style="list-style-type: none"> • Observe the ethics of conducting psychological research • Ability to work with information from various sources, as well as to compile scientific reports. • Use a variety of computer programs
Study course content	Topics		
	1	The study of kinesthetic senses	
	2	The study of the features of perception of form with passive and active touch	
	3	The study of involuntary memorization and the conditions of its productivity	
	4	The influence of distribution of attention on productivity of activity	
	5	The study of visual perception selectivity	
	6	The study of the features of perception of form with passive and active touch	
	7	Short-term memory research	
	8	The study of conceptual thinking	
	9	The study of lability - rigidity of thought processes	
	10	Implicit measurement methods, work with the E Prime 2 program	
11	Presentation of the results and their interpretation		
Form of assessment:	Exam		
Obligatory literature:			
<p>1. Bryman, A. (2012). Social Research Methods. Oxford University Press.</p> <p>2. Denzin, N.K., & Lincoln, Y.S. (2014). The Sage handbook of qualitative research. 3th edition. Thousand Oaks, CA: Sage publications Ltd. (CD).</p> <p>3. Goodwin, K.A., & Goodwin, C. J. (2016) Research in Psychology: Methods and Design. Hoboken, NJ John Wiley & Sons. ISBN-13: 978-1119330448 https://books.google.lv/books?id=QBCIDQAAQBAJ&printsec=frontcover&hl=ru#v=onepage&q&f=falseAbdi, H., Edelman, B., Valentin, D., & Dowling, J. (2009) Experimental Design & Analysis for Psychology, 978-0-19-929988-1, 560 pp.</p> <p>4. Howitt, D., & Cramer, D. (2016). Research methods in psychology. (CD)</p>			
Additional reading:			
<p>1. Plotka, I., Igonin, D., & Blumenau, N. (2016). Implicit Attitudes and Measurements: Effect of Context. International Business: Innovations, Psychology and Economics, 7(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.</p> <p>2. 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.llu.lv/conference/index.php?topicID=8 DOI: 10.22616/ERDev.2022.21.TF150</p>			



3. 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.
4. 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
European Journal of
3. Psychological Assessment. www.hhpub.com/journals/ejpa
4. Psychological Science. Research, theory, & Application in Psychology and Related Sciences. www.psychologicalscience.org
5. Methodology European Journal of Research Methods for the Behavioural and Social Sciences. www.hogrefe.com/journals/methodology
6. Experimental Psychology. www.hhpub.com/journals/expsy

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