



## INFORMATION TECHNOLOGY IN PSYCHOLOGY

<b>Credit points</b>	<b>3 CP</b>		
<b>Study course annotation</b>	The master's student should get specialized knowledge about the application of information technologies in psychology. It is necessary to give knowledge about the features of the use of Internet technologies in order to further independently use Internet resources for training and professional activities. He/she is able to create presentations and use modern computerized diagnostic techniques and has an understanding of mathematical methods of processing computer tests.		
<b>Aim of the study course</b>	Provide an in-depth understanding of the features of the information society and develop the skills of collecting and processing information, as well as the ability to apply modern IT tools in practice.		
<b>Objectives of the course</b>	<ul style="list-style-type: none"> <li>• Introduce the main trends in the field of information technology in psychology;</li> <li>• Give undergraduates theoretical knowledge and practical skills in the use of computer technology in practical activities;</li> <li>• Learn how to draw up electronic documents and scientific publications;</li> <li>• Introduce the types of computer tests, their scope, content, reliability and validity indicators;</li> <li>• To acquaint with the latest achievements in the development of computer psycho-diagnostic methods.</li> </ul>		
<b>Study course results</b>	<b>Knowledge</b>	<b>Skills</b>	<b>Competences</b>
	<ul style="list-style-type: none"> <li>• Knowledge and skills in the use of Internet resources in the search and processing of information;</li> <li>• Know the latest office applications and their application when working with documents;</li> <li>• Students can explain the basic principles of scientific methodology and justify their application;</li> <li>• Students learn the necessary data protection skills when working with documents;</li> <li>• Students are introduced to the latest programs used in the field of psychodiagnostics.</li> </ul>	<ul style="list-style-type: none"> <li>• Able to use it methods and programs when working with data and documents;</li> <li>• Able to create psychological tests using application software;</li> <li>• Students can use analytical thinking and creativity to solve complex problems.</li> </ul>	<ul style="list-style-type: none"> <li>• Ability to collect and analyze collected information when working on various tasks; Ability to professionally process the data and format the results for presentation and/or publication.</li> <li>• Ability to correctly select the necessary software tools and methods when working with information.</li> </ul>
<b>Study course content</b>	<b>Topics</b>		
	1	The introduction of modern IT technologies. Global information space as a new kind of society. The history of the development of information technology.	
	2	Information technology and the Internet as a means of communication. Electronic libraries and magazines	
	3	Development of information technologies in the field of education and psychology. The main directions of using telecommunications tools in education and psychology.	
	4	Features of distance learning.	



	5	Office application software (MS Office and OpenOffice). Data protection.
	6	Registration of documents according to the APA rules. Using MS Word to format text.
	7	Creation of multimedia programs for training in the fields of psychology. Creating an interactive test and presentation in MS PowerPoint
	8	Using built-in software elements in MS Word when creating psychological tests.
	9	Use EXCEL to calculate the data and generate reports.
	10	Psychodiagnostic procedures. The human factor in psychodiagnostics. Professional tests and their computerization (E-Prime).
<b>Form of assessment:</b>	Exam	
<b>Obligatory literature:</b>		
<ol style="list-style-type: none"> <li>1. Larry R. Price. (2017) Psychometric methods: theory into practice. New York. The Guilford Press</li> <li>2. Psychological Testing and Assessment: An Introduction to Tests and Measurement. (2010). 7th Edition. ISBN-13: 978-0-39-011360-3. McGraw-Hill Primis.</li> <li>3. Matt Vic. (2021) Microsoft Office 365 for Beginners &amp; Pros. 2021: The Complete User Guide for Quick Understanding of Word, Excel, PowerPoint and Access 365 for All Users. Independently published.</li> <li>4. Joyce Cox and Joan Lambert. (2013) Microsoft Word 2013 Step by Step. Microsoft Press</li> </ol>		
<b>Further reading list:</b>		
<ol style="list-style-type: none"> <li>1. Graham, J.R. MMPI – 2 Assessing Personality and Psychopathology. Oxford: Oxford University Press, 2000.</li> <li>2. Advances in Educational and Psychological Testing: Theory and Applications, Hambleton, Ronald K. (et al.) (Eds.), ISBN 978-94-009-2195-5, 1991, XVI, 460 p.</li> <li>3. Thomas Quirk. Excel 2010 for Educational and Psychological Statistics. ISBN 978-1-4614-2071-2. Springer. 2012</li> </ol>		
<b>Other sources of information (electronic journals):</b>		
<ol style="list-style-type: none"> <li>1. Microsoft (2016), "Office apmācības centrs", available: <a href="http://office.microsoft.com/lv-lv/training/default.aspx">http://office.microsoft.com/lv-lv/training/default.aspx</a></li> <li>2. E-book Getting Started with OpenOffice.org 3.3</li> <li>3. <a href="http://www.csb.gov.lv">www.csb.gov.lv</a></li> <li>4. <a href="http://ec.europa.eu/eurostat">http://ec.europa.eu/eurostat</a></li> <li>5. <a href="https://pstnet.com/products/e-prime/">https://pstnet.com/products/e-prime/</a></li> </ol>		
<b>Changes and additions to the program and literature list are possible during the study process</b>		