NEUROPSYCHOLOGY II

<table>
<tr><td>Credit points</td><td colspan="3">3 CP</td></tr>
<tr><td>Study course annotation</td><td colspan="3">The course provides an insight into the research scheme, procedure, auxiliary devices in neuropsychology, introduces the possibilities of testing. The course teaches the ability to determine various characteristics, to obtain data, to analyze and to draw conclusions.The course prepares students for presentation of research results. Students acquire initial skills in applying knowledge to solve neuropsychological problems.</td></tr>
<tr><td>Aim of the study course</td><td colspan="3">To acquaint students with modern methods of neuropsychological research; acquisition of neuropsychological diagnostic methods; acquisition of neuropsychological research of states of the highest mental functions; to promote the development of independent thinking through the interpretation of research results.</td></tr>
<tr><td>Objectives of the course</td><td colspan="3">● To introduce the basics of economic theory
● To give an idea of the functioning of the economy at the level of economic units.
● To find out the basic principles of management and forms of its organization.
● Understand the environmental impact of doing business in the short and long term;
● To develop understanding of the goals and instruments of the national economic policy.
● Reassess the assessment of real macroeconomic policies and their consequences;
● To impart theoretical knowledge and promote the practical application of theoretical knowledge in the field of project management.
● Study of the role of individual brain systems in the exercise of higher mental functions.
● Investigation of the functional mechanisms of mental activity and emotional-personal sphere based on local brain activity.
● Damaged material.
● Research of neuropsychological diagnostic methods, neuropsychological research of the state of the highest mental functions.</td></tr>
<tr><td rowspan="2">Study course results</td><td>Knowledge</td><td>Skills</td><td>Competences</td></tr>
<tr><td>• types of higher mental disorders (AGF);
• hearing and visual agnosia and apraxia;
• kinetic and kinesthetic apraxia;
• local AGF violations • causes of AGF violations
• organic genesis;
• neuropsychological diagnosis;
• Infringements of the AGF</td><td>• choose neuropsychological research methods according to the client's research needs;
• carry out psychological and psychophysiological studies / assessments of the client;
• Critical and self-critical skills.
• students can systematize and analyze the formation, development and interconnectedness of economic and social problems and evaluate the processes taking place in the economy;
• to identify the economic and social problems of the country at the micro and macro level, to provide a summary;
• is able to apply the acquiredtheoretical and practical</td><td>• ability to develop professionally.
• critically analyze the relationship between mental
function and major psychosomatic syndromes;
• use computers for neuropsychological diagnosis;
• assessment of skills.</td></tr>
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		knowledge, ensuring his / her competitiveness in the labor market; • Is able to use the knowledge gained in the program in different life and business situations, working in a team or individually	

Study course content	**Topics**	
	1	Research methods in neuropsychology: practical significance. Testing options.
	2	Electroencephalography. Electric activity of the brain. Functional significance of EEG properties
	3	Principles of intercellular neurodynamics and the problem of interaction. Functional asymmetry of hemispheres: research methods.
	4	Attention research methods.
	5	Exploring memory.
	6	Research of thinking
	7	Methods for restoring impaired mental function
	8	Data acquisition, analysis and presentation of results.
Form of assessment:	Exam	

Obligatory literature:

1. Bear, M. F., & Connors, B.W. (2015). Neuroscience: Exploring the Brain. Fourth, NorthAmerican Edition.
2. Kenemans, L., & Ramsey (2015). Psychology in the Brain. Palgrave Macmollan.
3. The Encyclopedia of Neuropsychological Disoders. (2011) Ed. by Chad Noggle. Springer.
4. Barbara, A. ed. (2017) Neuropsychological rehabilitation : the international handbook.Abingdon, Oxon and New York, Routledge.
5. Strauss, E., Sherman, E. M. S., & Spreen, O. (2006). A compendium of neuropsychologicaltests: Administration, norms, and commentary (3rd ed.). Oxford University Press.

Additional reading:

1. Goldbergs, E. (2009). Gudrības Paradokss. Rīga, Nacionālais apgāds.
2. Ramachandran, V.S. (2012). The Tell-Tale Brain: a neuroscientist' s quest for what makesus human. Norton Company.
3. Igor Grant, Kenneth M. Adams. (2009). Neuropsychological assessment of Neuropsychiatric and Neuromedical disorders. 3rd edition. Oxford University Press

Other sources of information (electronic journals):

1. The Neuroscientist
2. Developmental Neuropsychology
3. Aging, Neuropsychology and Cognition
4. Journal of Cognitive Neuroscience
5. Journal of Integrative Neuroscience

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