

NEUROPSYCHOLOGY I

Credit points	3 CP		
Study course annotation	The training course acquaints students with the basics of neuropsychology, forms an idea of the structure and functions of higher mental functions; forms an idea of the relationship of mental functions with the functional states of the brain. Students master the initial skills of applying the acquired knowledge in solving neuropsychological problems.		
Aim of the study course	To form students' neuropsychology.		
Objectives of the course	<ul style="list-style-type: none"> • Study of the role of individual brain systems in the implementation of mental activity. • The study of the brain mechanisms of higher mental functions and the emotional-personal sphere based on the material of local brain lesions. • the study of neuropsychological diagnostic methods, neuropsychological studies of the state of higher mental functions. 		
Study course results	Knowledge	Skills	Competences
	<ul style="list-style-type: none"> • basic principles of higher mental functions; • specific signs of mental functions; • brain organization of the mental functions of the left and right hemispheres; • manifestations of disorders of higher mental functions; • methods for restoring damaged mental functions. 	<ul style="list-style-type: none"> • application of neuropsychological research methods; • application of methods for restoring impaired mental functions; • study of interhemispheric functional asymmetry of the brain. 	<ul style="list-style-type: none"> • detect and solve neuropsychological problems; • conduct a syndromic analysis of higher mental functions; • critically analyze the relationship of mental functions with the functional states of GNI; • use benchmarking skills
Study course content	Topics		
	1	Modern Ideas for Higher Spiritual Functions (HSF)	
	2	Theory of systemic dynamic localization of HSF	
	3	The problem of interhemispheric asymmetry of the brain and interhemispheric interaction	
	4	Neuropsychological syndromes with local brain damage	
	5	Emotional-personal disorders with local brain damage	
	6	Impaired consciousness in local brain damage	
7	Sensory and Gnostic disorders		
Form of assessment:	Exam		
Obligatory literature:	<ol style="list-style-type: none"> 1. Andrewes, D. (2016) Neuropsychology: from theory to practice. 2nd edition. Routledge. ISBN: 978-1-84169-701-7 2. Banich, (2014) Neuropsychology. The Neural Bases of Mental Function. USA: Mifflin Company. M.T. 3. Bear, M. F., & Connors, B.W. (2015). Neuroscience: Exploring the Brain. Fourth, North American Edition. 4. Strauss, E., Sherman, E. M. S., & Spreen, O. (2006). A compendium of neuropsychological tests: Administration, norms, and commentary (3rd ed.). Oxford University Press. 		
Additional reading:	<ol style="list-style-type: none"> 1. Carter, R. (2019). The human brain book. 3 edition, expanded and updated. New York, DK Publishing. 		



2. Garrett, B. (2011) Brain & Behavior. An Introduction to Biological Psychology. UK.,SAGE.
3. Methods in Mind (2009) Ed. By Carl Senior, Tamara Russell, and Michael S.Gazzangia. MIT Press.
4. Hugdahl, K, & Westerhausen, R. (2010) The Two Halves of the Brain: Information Processing in the Cerebral Hemispheres. MIT Press.117
5. Hirstein, W. (2009). Brain Function, Self-Deception and the Riddle of Confabulation. MIT Press.
6. Child Neuropsychology (2009) Ed. by Michael Westerveld. Routledge. Psychology Press.
7. Goldbergs, E. (2011) The New Executive Brain: Frontal Lobes in a Complex World. Oxford.
8. Linden, D. (2015). Brain Control. Palgrave Macmillan.

Other sources of information (electronic journals):

1. The Neuroscientist
2. Developmental Neuropsychology
3. Aging, Neuropsychology and Cognition
4. Journal of Attention Disorders
5. Journal of Cognitive Neuroscience
6. Journal of Integrative Neuroscience
7. Emotion Review

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