

DISCIPLINE DESCRIPTION

The elective module "Biological foundations of psychology 1" "Anatomy of the nervous system"

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| 1 | Specialized module | "Anatomy of the nervous system" |
| 2 | Specialty | 1-23 01 04 "Psychology" |
| 3 | Course of Study | 1 |
| 4 | Semester | 1 |
| 5 | Credit units | 2 |
| 6 | Degree, title, full name of lecturers | Senior lecturer Stadolnik D. |
| 7 | Objectives | Acknowledgement with the mechanisms of mental activity implementation, systems of brain tone regulation, systems of receiving, processing and storing information, as well as systems of programming, regulating and storing information. |
| 8 | Prerequisites | Physiological basis of behavior |
| 9 | Syllabus | Anatomy and physiology of the central nervous system. Structural and functional characteristics of the nervous tissue. Neuron Morphophysiology. Synapse morphology. Bioelectric potentials in excitable tissues. Morphofunctional characteristics of the nervous system, spinal cord. Morphofunctional significance of the hindbrain. Morphofunctional characteristics of the cerebellum, midbrain. Morphofunctional features of the diencephalon. Morphofunctional characteristics of the reticular formation. Morphofunctional characteristics of the subcortical nuclei of the cerebral hemispheres. The structure of the telencephalon. Functional role of the cerebral hemispheres. Morphofunctional characteristics of the limbic system. Morphophysiology of the somatic and autonomic nervous system. Processes of excitation and inhibition in the central nervous system. Reflex as the main form and functional unit of nervous activity. Anatomy and physiology of analyzers. |
| 10 | References | <ol style="list-style-type: none"> 1. Анатомия человека. В 2 томах. Ред. М.Р. Сапин М. Медицина, 2019. 2. Козлов В.И., Цехмистренко Т.А. Анатомия ЦНС. М.: Изд-во АСТ, 2016. 3. Физиология центральной нервной системы. Ред. Т.В. Алейникова., В.Н. Думбай, Г.А. Кураев, Г.П.Фельдман. Ростов н/Д.: Феникс, 2018. |
| 11 | Teaching Methods | Comparative, problematic, dialogue-heuristic, interactive |
| 12 | Tuition Language | Russian |