

## DISCIPLINE DESCRIPTION

### The elective module "Biological Foundations of Psychology 1" "Physiological Basis of Behavior"

1	Specialized module	Physiological Basis of Behavior
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	Doctor of Medical Science Trishin L., Professor
7	Objectives	Formation of the comprehensive knowledge of human brain structural and functional organization. Development of understanding of physiological processes which underly behavior, both at the cellular and macrolevels.
8	Prerequisites	Neuroanatomy
9	Syllabus	Introduction to the subject. The concept of systems and regulation in physiological processes. Humoral regulation of human behavior. Functions of the endocrine glands. The nervous system as an organic substrate of behavioral activity. General model of the sensory system. Physiology of the organs of vision. Physiology of visual perception. Physiology of color vision. Physiology of the organs of hearing. Physiology of the organ of balance. Skin Physiology. Physiology of the organ of taste. Physiology of the olfactory organ. Introception. Physiology of muscle tissue. Central control apparatuses of actions. Motoraction programs. Body schema and internal representation system in behavior implementation. The activation system in the structure of behavior. Physiological mechanisms of circadian rhythms of the body. Physiological mechanisms of hypnosis. Psychophysiological mechanisms of stress. Theories of mechanisms of motivational behavior and emotions. Dominant. Innate activity of the organism. Instincts. Conditioned reflex as a universal adaptive mechanism. Dynamics of conditioned reflex activity. Physiological mechanisms of temporary connection closure. Characteristics of the person's higher nervous activity. Typology of higher nervous activity. Physiological basis of consciousness. Structural and functional basis of memory. History of learning. Individual experience in human behavior. Theory of functional systems of P.K. Anokhin. Behavior in a probabilistic environment. Individual characteristics.
10	References	1. Кузнецов, В.И. Нормальная физиология : курс лекций / В. И. Кузнецов [и др.] ; под ред. В. И. Кузнецова. – 4-е изд. – Витебск : ВГМУ, 2017. – 611 с. 2. Шибкова, Д.З. Самостоятельная работа по дисциплине «Физиология человека и животных» [Текст]: учебное пособие / Д.З. Шибкова, Н.В. Ефимова. – Челябинск: Изд-во Юж.-Урал. гос. гуман.-пед. ун-та, 2016. – 243 с
11	Teaching Methods	Comparative, problematic, dialogue-heuristic, interactive
12	Tuition Language	Russian



