

Subject name	Animal and Human Physiology and Endocrinology	
Subject code	H.KFZa.AN19.SI.HZOXY	
Department	Animal Physiology and Endocrinology	
Faculty	Animal Sciences	
Subject supervisor/Lecturer	Professor Krystyna Koziac	
General information	semester	winter
	ECTS credits	8
	Lectures total	20 hrs
	Laboratories	30 hrs
Objective and general description	<p>The course is divided into two parts: first- only lectures here students are obliged to learn the main topics of physiology: nervous system, blood system, immunology, respiration, gastrointestinal physiology, reproduction and endocrinology. During the second parts students will prepare seminars (presentations) on specific topics chosen from the list. Invited speakers will have lecture about modern physiological methods.</p> <p><u>Lectures:</u> Cells and their function. Physiology of Cell membranes Immunity. Autoimmunological diseases Central nervous system Physiology of senses: vision, hearing, pain, taste Physiology of intestinal system. Ingestion Growth factors Physiology of growth Physiology of water metabolism Physiology of pregnancy and parturition Physiology of adipose tissue Vitamins Physiology of muscles Neurophysiology of behaviour Physiology of lactation Endocrinology of metabolism</p> <p><u>Laboratory classes</u> Haemopoiesis. Diffusion, osmosis and hemolysis Hematocrit test, the role of blood plasma and leukocytes Role of erythrocytes. Hemoglobin assay. Blood clotting Immunity. Blood groups Blood circulation Blood pressure. Blood pressure measurement Structure of nervous system. Neural conduction. Reflexes Structure and functions of autonomic nervous system Skeletal muscles and smooth muscles Structure of digestive system. Digestion and absorption Endocrinology – endocrine glands, anatomy and function Structure of respiratory system. Respiration and spirometry Processes of physiological and pathological urine formation Metabolism, basic metabolism, thermoregulation</p>	

Assessment method	examination
References	Review of Medical Physiology W.F. Ganong Medical Physiology W. Guyton Generative and Comparative Physiology W. S.Hoar Williams Textbook of Endocrinology Wilson&Foster Endocrinology M.E.Hadley