

COURSE UNIT DESCRIPTION - GENERAL ZOOLOGY

Course unit title	Code
GENERAL ZOOLOGY	

Lecturer(s)	Department(s)
Coordinator: Assoc. prof. Jurga TURČINAVIČIENĖ Other(s): Assoc. prof. R. Aukštikalnienė, Assoc. prof. R. Bernotienė	Faculty of Natural Sciences, Department of Zoology, Čiurlionio 21, LT-03101, Vilnius

Cycle	Level of the course unit	Type of the course unit
Full-time studies (1 st stage)	1 out of 1	Compulsory

Mode of delivery	Period of delivered	Language(s) of instruction
Face to face	1 th semester, autumn	Lithuanian

Prerequisites and corequisites	
Prerequisites: None	Corequisites (if any):

Number of credits allocated to the course unit	Student's total workload	Contact hours	Self-study and research hours
5	133	64	69

Purpose of the course unit: programme competences to be developed
The course unit aims to develop <i>Subject-specific competences :</i> • applies concepts of general biology for description of biological systems through the knowledge and understanding of the animal diversity, anatomy, physiology, behaviour, ecology and phylogenetic relationships of animals and their importance for environment. • identifies most invertebrate animals (at least to a major taxonomic group such as Phylum or Class), • appreciates the evolution of structures and organ systems, phylogenetic relationships. <i>General competences:</i> • analytical and critical thinking • skills for self-development, learning skills in order to study general science resources; • ability to organize and plan their work and time.

Learning outcomes of the course unit	Teaching and learning methods	Assessment methods
Describes and explains general principles of animal biology.	Lectures, self-directed learning	Test (open questions)
Describes animal morphology and relates it with functions.		
Compares different taxa of animals and explains possible phylogeny of animal phyla.		
Performs analysis of microscopic slides of animals, recognises organ systems, tissues and developmental stages	Practical work with microscope, analysis of organisms	Test (identification of animals)
Explains and applies fundamentals of animal structure		

Content: breakdown of the topics	Contact hours							Self-study work: time and assignments	
	Lectures	Tutorials	Seminars	Exercises	Laboratory work	Internship/work placement	Contact hours	Self-study hours	Assignments
1. Animal Kingdom. Classification of animals, general characters using in systematics. Nomenclature. Protista Kingdom	2				2		4	2	Textbook reading, preparation for laboratory works and Lab Reports, self-study.
2. Multicellular and tissue levels of organization. Development, cleavage, primary germ layers, symmetry, cephalization. Phylum Platyhelminthes	2				2		4	4	
3. Adaptations of parasites. Reproductions of animals. Asexual and sexual reproduction. Life cycles. Phylum Nematoda	2				2		4	4	
4. Phylum Annelida – metameric body form, body cavity. Biodiversity and adaptations. Movement and support systems.	2				2		4	4	
5. Phylum Arthropoda – most abundant phylum of animals. General characters and diversity. Subphylum Crustacea. Subphylum Hexapoda. Class Insecta. Development of insects and metamerism. Subphylum Chelicerata. Nervous and sensory systems of invertebrates.	8				12		20	12	
6. Phylum Mollusca. Phylum Echinodermata. Nutrition. Digestion. Intracellular and extracellular digestion. Enzymes. Homeostasis and excretion.	4				4		8	4	
7. Phylum Chordata – main characteristics (bilaterally symmetrical, deuterostomate animals, notochord, pharyngeal slits, nervous system). Vertebrates.	6				4		10	12	
8. Circulation and gas exchange systems of vertebrates. Adaptations of terrestrial vertebrates. Ectotherms and endotherms.	4				4		8	6	
9. Animal behaviour	2						2	3	
10. Self- learning and generalization of knowledge								16	
Total	32				32		64	69	

Assessment strategy	Weight, %	Assessment period	Assessment criteria
Quizzes during lectures	2%	During semester	Points for correct answers 1 point – correct answer 0.5 point – partly correct answer
Lab works are obligatory. Identifications of animals	50	Before the end of semester	Identifications skills and ability to explain morphology of different taxa.
Exams	48	Mid and end of semester	2 tests (open questions) of 50 questions. 50-60 answered questions -5 (sufficient) 60-70 answered questions - 6 (satisfactory) 70-80 answered questions -7(highly satisfactory) 80-90 answered questions -8 (good)

			90-100 answered questions --9 (very good) and10 (excellent)
Total	100		Mean of the scores of exams, quizzes and practical skills

Author	Year of publication	Title	Issue of a periodical or volume of a publication	Publishing place and house or web link
Compulsory reading				
Miller S.A., Harley J.P.	2010	Zoology		McGraw-Hill
Optional reading				
Rupert E., Fox R., Barnes R.	2004	Invertebrate Zoology		Brooks/Cole