Module name	**General and taxonomic zoology with principles of taxonomy**
Module code	B-BM.071Eng
ISCED code	0511: Biology
Study cycle	I^{o}
Semester	summer
Responsible for this module	dr. hab. Halina Kucharczyk Department of Zoology and Nature Protection email: halina.kucharczyk@umcs.lublin.pl
Language of instruction	English
Website	-
Prerequisites	Basic knowledge in the field of animal zoology and ecology, and knowledge of basic biological concepts
ECTS	7,5
ECTS points hour equivalents	Contact hours (work with an academic teacher) – 3.5 points - - lectures: 30 h - labs: 60 h Non-contact hours (students' own work) – 4.0 points - preparation for the exam: 40 h - preparation for labs and literature study: 60 h - **Total number of ECTS points for the module – 7,5**
Learning outcomes verification methods	For the cycle of first year course starting in the academic year 2019/2020 Lecture - written exam covering learning outcomes: W1-W4, U1, U2, K1, K2; Laboratory classes: continuous evaluation of the laboratory classes and written tests: W1-W4, U1-U4, K1-K2 Labs - written tests covering learning outcomes realised during practical work and own work at home
Course full description	During lectures the following issues will be addressed: theory of classical and phylogenetic classification of animals; biodiversity and the tree of life. Diagnostic and adaptive features of the animals phyla including comparative morphology, anatomy, ecology, physiology, life history and biocenotic meaning. The examples of the interaction between animal species and between animal as well as other organisms. Animal taxa identification and observation under laboratory and natural condition. Meaning of the selected animal species for the scientific research, medicine and economy. The animals' species dangerous for human. Global animal protection. During classes students will know selected animal species of invertebrates and vertebrates with determination of European species

Bibliography	Recommended basic titles of literature: Hickman C.P., Jr., Larry s. Roberts L.S., Keen S.L., Eisenhour D.J., Larson A. Integrated Principles of Zoology. Publisher: New York, McGraw Hill Education Miller S.A., Harley J.P. Zoology. Tenth edition 2007. Publisher: McGraw Hill Education Ruppert E.E., Fox R.S., Barnes R.D.. Invertebrate Zoology. A functional Evolutionary Approach. Publisher: Brooks/Cole Pub Co
Learning outcomes	**KNOWLEDGE,** the student: W1. has advanced knowledge and understanding of ancient and modern concepts in taxonomy, and complex relationships between living organisms on different levels of body organisation, K_W01 W2. knows and understands the laboratory, and field methods and techniques used in zoological researches, K_W02 W3. on the basis of knowledge from different biological disciplines understands the relationships between animals and their environments, and the principles of organisms' functioning, K_W03, K_W04 W4. has knowledge and understanding of the activities undertaken for preservation of biodiversity as a prerequisite for maintenance of balance in the biosphere and as a source of biological material for practical applications, K_W05. **SKILLS,** the student: U1. can choose the appropriate literature to solve the tasks recommended during the laboratory and home work; is able to conduct critical analysis, and synthesis of information according to behaviour and taxonomy of animals, K_U02 U2. Uses appropriate terminology when discussing the construction and functioning of the Protista and Animalia representatives in their natural environment. K_U05. U3: is able to select properly and apply appropriate research methods and tools to realise laboratory tasks and to present the results of experiments or observations in a written and oral form using advanced communication techniques, K_U03, K_U04 U4. Is able to constantly update his zoological knowledge, focusing especially on issues related to his

	interests and professional work. K_U09. **SOCIAL COMPETENCES,** the student is ready to: K1. He is ready for constructive self-criticism and assessment of his zoological knowledge, he also recognizes the importance of animal knowledge as a tool for solving cognitive and practical problems. K_K03. K2. He is ready to fulfill the social mission of the scientist, sharing zoological knowledge with others and making society aware of the importance of knowledge about animals in human life.
Practice	…….
Teaching methods	Lecture - multimedia presentation Labs - Observation of living and conservated animals, preparing the notes on animals morphology and biology on the basis of observations, preparing the biological drawings on the basis of observations. Discussion on the adaptation of animals to different food strategies or living in different environments adaptation of animal bodies into their environmental. Presentations prepared by teacher and students.