

Study Program: Biology				
Type and level of studies: Bachelor studies				
Course name: Zooecology and zoogeography				
Lecturer: Živić V. Nebojša				
Status: Compulsory				
ECTS: 6				
Attendance Prerequisites: Comparative anatomy of chordates				
Course aims Acquiring basic knowledge in autecology, demecology and zoocenology. Field research in animal ecology, linking ecology to zoogeography.				
Course outcome Ability to identify and study animal-environment interactions; field research within the domain of ecology. Linking ecology with animal protection.				
Course content <i>Theoretical part:</i> The subject of study and classification of ecology, its origin and development. History of animal ecology. Relationship with other biological sciences. Levels of ecological research. Ecological disciplines. Environmental factors and their classification. Autecology- the impact of environmental factors and ecological valence. Life form. Ecological niche. Climate factors. Climate regime, phenological phenomena and the dormant phase. Environmental chemistry. Edaphic factors. Biotic factors. Demecology – the concept, formal and functional elements of population. Population theories. Ethological capabilities. Population growth and mobility factors. Spatial relations. Synecology-Biocenosis, trophic relations. Periodism, Ecosystem. Ecosystem metabolism and organic productivity. Ecosystem succession. Man and the biosphere. Climax. Marine and freshwater ecosystems. Terrestrial biomes. Species distribution area. Animal dispersal. The relationship between animal ecology and zoogeography and their mutual dependency. Ecology and environmental protection. <i>Practical part:</i> Experimental and statistical research methods in ecology. Biotic and ecological niche. Life form. Population growth of Paramecium in limited conditions. The effect of environmental factors on population dynamics and other exercises.				
Literature 1. Станковић, С. (1961): Екологија животиња. Завод за издавање уџбеника, Београд. 2. Begon, M., Harper, J.L., Townsend C.R (1996): Ecology. Third edition. Blackwell Science. 1068pp. 4. Odum, E.P. (1974): Fundamentals of Ecology. Third Edition. W.B. Saunders company. Philadelphia, London, Toronto. 5. Лопатин, И. (1995): Зоогеографија; превод са руског С. Пешић. Зим-Пром, Крагујевац. 6. Матвејев, С. Д., Пунџер, И. Ј. (1989): Карта биома - Предела Југославије и њихова заштита. Природњачки музеј у Београду; Посебна издања. 7. Паповић, Р., Шапкарев, Ј. (1993): Анимална Екологија. Универзитет у Приштини.				
Number of active classes				Other classes:
Lectures: 2	Practical classes: 0	Other forms of teaching: 2	Students' research work	
Teaching methods Theoretical interactive classes, presentations, field trips, fieldwork, term papers.				
Assessment (maximum 100 points)				
Course assignments	points	Final exam		points
tests during practical classes	15-30	written exam		
tests during lectures	15-40	oral exam		30-70
Total				