Study Programme : PhD in Biology				
Degree level: Doctoral degree				
Course Title: Phylogenetic Systematics of Animals				
Professor: Ivo Karaman				
Required/Elective Course: Elective				
Number of ECTS: 15				
Prerequisites:				
<b>Course Objective:</b> Achieving knowledge in interdisciplinary subject of phylogenetic systematics. Understanding of basic				
principles and use of different methodological approches in phylogenetic systematics.				
Course Outcome: Acknowledge of phylogenetic approach in systematics and basic methods in phylogenetic				
investigations.				
Course Content:				
Theoretical part Tasks in phylogenetic systematics. Phylogenetic systematics and alternative. Species concept, speciation.				
Taxonomy of lower categories, metamorphisms, polymorphism and ciclomorphism. Chorological relationships of				
individuals and their significance for the taxonomy. The species category in the time dimension. Taxonomy and				
taxonomic methods in the higher group categories. Monophyly, polyphyly and paraphyly. Sister groups. Dichotomy and				
Radiation. Phylogenetic trees. Cladistics, methods. Characters and phylogenetic reconstruction. Phylogenetic				
classification. Phylogenetic biogeography.				
Reading List:				
1. w.Henning: Phylogenetic Systematics. University of Illinois Press, Urbana, 1979				
2. R. I. Schuh: Biological systematics. Principles and applications. Cornell University Press, 2000				
Total hours:	Described	Other	Ct. 1	
Lectures: 5	Practicals:	Other:	Student research	
Methods of instruction	<u> </u>		WOIK.J	
Interactive methods				
Seminar work				
Assessment (maximum number of noints 100)				
Requirements				
seminar work 30				
oral exam70				
Remark:				
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