

Study Programme: PhD in Biological Sciences, PhD in Ecological Sciences			
Course Unit Title: Methodology of Scientific Research			
Course Unit Code: DNBE002			
Name of Lecturer(s): Dr Vesna Milankov, Dr Ljubinka Francuski Marčetić			
Type and Level of Studies: PhD Degree			
Course Status (compulsory/elective): Elective			
Semester (winter/summer): Winter			
Language of instruction: English			
Mode of course unit delivery (face-to-face/distance learning): face-to-face			
Number of ECTS Allocated: 15			
Prerequisites: None			
Course Aims: The Methodology of scientific research course covers research design and methodology for students working on a doctoral thesis. This course provides theoretical insight and practical skills required to plan, implement, analyze and report a scientific experiments. The course is an advanced course that involves the study and discussion of current research papers. The ultimate aims are to strengthen scientific ways of thinking, learn the development a research topic, and apply the methodology of scientific research.			
Learning Outcomes: The course is design to prepare students for independent scientific research and assist students in developing their research proposal.			
Syllabus: <i>Theory</i> Contemporary methods in sampling, studying and illustrating scientific data; Methods and tools in research and presentation of scientific data; Writing and preparing thesis; Preparing papers – from manuscript to proof; Writing and preparing book and monograph; On line publication; Review; Scientific projects. <i>Practice</i> Analyses of scientific publication and scientific projects.			
Required Reading: 1. Briscoe, M.H. (1996) Preparing scientific illustrations. 2nd ed. Springer-Verlag, New York. 2. Ebel, H.F., Bliefert, C., Russez, W.E. (2004) The art of scientific writing. Wiley-VCH Verlag GmbH & Co. KGaA. 3. Milankov, V., Jakšić, P. (2007) Metodologija naučnoistraživačkog rada u biološkim disciplinama. PMF. (udžbenik)			
Weekly Contact Hours:	Lectures: 5	Practical work: 0 + 5	
Teaching Methods: oral presentation			
Knowledge Assessment (maximum of 100 points):			
Pre-exam obligations	points	Final exam	points
Active class participation		written exam	
Practical work		oral exam	100

Preliminary exam(s)		
Seminar(s)			
The methods of knowledge assessment may differ; the table presents only some of the options: written exam, oral exam, project presentation, seminars, etc.			