

Study Programme : Biology and Ecology			
Degree level: Doctoral degree			
Course Title: Methodology of Scientific Research			
Professor: dr Vesna Milankov, dr Ljubinka Francuski Marčetić			
Subject: DNBE002			
Elective Course			
Number of ECTS: 15			
Prerequisites:			
Course Objective: 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.			
Course Outcome: The course is design to prepare students for independent scientific research and assist students in developing their research proposal.			
Course Content: <i>Theoretical part</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>Practical part</i> Analyses of scientific publication and scientific projects			
Reading List: 1. Briscoe, M.H. (1996) Preparing scientific illustrations. 2 nd 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. i Jakšić P. (2007) Metodologija naučnoistraživačkog rada u biološkim disciplinama. PMF. (udžbenik)			
Total hours:			
Lectures: 5	Practicals:	Other:	Student research work: 5
Methods of instruction: oral presentation			
Assessment (maximum number of points 100)			
Requirements			
Remark: oral exam			