

Study program: Master academic studies: Integrated management of natural resources (MASIMNR) и Master academic studies: Environmental Protection (MASEP) and Master academic studies : Environmental Risk Management (MASERM)			
Type and level of studies: Master academic studies, II level			
Subject name: Methodology of Scientific Research Paper		Subject code	6U1MNR
Professor: dr Aleksandar V. Gordić, assistant professor			
Subject status: Mandatory			
Number of ECTS:7			
Condition: none			
Subject goal Getting to know the particularities of individual research techniques, their potentials and limitations, as well as with the advanced techniques of scientific research (functional and structural analysis, ethnomethodology, operational research, etc.); mastering abstract methodological concepts and techniques of scientific research in all its elements.			
Subject outcome Qualifying students for independent scientific research in natural and social, in fundamental and applied sciences, as well as for drawing up serious scientific papers. Mastering the skills of critical interpretation of the results and perspectives from the scientific literature for use in educational and research purposes. Qualifying students to detect and eliminate methodological flaws in theoretical and empirical research, and to objectively evaluate someone else's own scientific results.			
Subject content <i>Theoretical classes</i> 1. Preliminary explanation, familiarization with the subject and the purpose; 2. Object and scope of the general methodology of science; 3. Purpose and division of scientific methods and techniques; 4. The structural and institutional analysis; 5. Functional analysis - from biology to sociology; 6. Non-standard research techniques; 7. The method of analysis and synthesis; 8. Scientific explanation and prediction - status of truth in science; 9. Scientific discovery and creativity in science; 10. The general structure of science (terms, hypothesis, theory, law); 11. The goals of scientific research; 12. The relationship of science and society; 13. The technique of scientific work; 14. The applicability and the scope of some of the scientific methods; 15. Preparation for the final exam <i>Practical classes:</i> Writing seminar papers, bibliography, or the sketch of master thesis. Oral presentations of students.			
Literature 1. Miloš Ilić, <i>Naučno istraživanje – opšta metodologija</i> , Filološki fak., Beograd, 1996. 2. Miloje R. Sarić, <i>Opšti principi naučnoistraživačkog rada</i> , Beograd, 1996. 3. Midhat Šamić, <i>Kako nastaje naučno djelo</i> , Svjetlost, Sarajevo, 1986. 4. Dragić Stojadinović, <i>Osnovi naučnog rada</i> , Ekonomski fakultet, Zubin Potok/Beograd, 2003.			
Number of active teaching classes			Other classes
Lectures: 3(45)	Practice: 3(45)	Other teaching classes: /	Study research paper: /
Teaching methods Interactive teaching - lectures, discussions about the application of scientific methods in ecological research, analysis, case studies and consultations. Preparation, presentation and discussion of seminar papers, as well as oral presentations of students on methodological issues. Asking questions, colloquium, seminar papers and oral exam. Discussions on the draft of the project of master thesis.			
Knowledge evaluation (maximum number of points is 100)			
Pre-exam obligations	points	Final exam	<i>points</i>
Activity during lectures	10	Written exam	50
Practical classes	20	Oral exam	
Seminar papers	20		