

Study program: Environmental protection			
Type and level of study: Bachelor academic studies			
Course Title: Environmental Monitoring			
Teachers: Gordana Racić			
Status: Obligatory, semester III			
ECTS: 8			
Prerequisite: None			
The goal of course The goal of course is to familiarize students with the instruments and measurement methods used in the experimental determination of the environmental conditions. Determining the state of the environment is a necessary step to gain basics for strategic planning management improvements.			
The outcome of the subject Students will be able to identify the measuring instruments, to use standard measurement methods and to understand and be able to learn how to do assessment of the state of the environment on the basis of the available data.			
Syllabus <i>Theoretical study –</i> Summary of types of errors in environmental analyses. Principles and techniques of sampling. Instruments and equipment for sampling. Testing of chemical, physical and microbiological properties of water. The principles of non-destructive analysis of solid samples. Mechanical and physical testing of soil. The composition of air, mean and current concentrations. Aerosols. Measuring stations and combat pollution. Measures safety and security at work. Identifying constraints in determining the state of the environment. <i>Practical classes –</i> Demonstrations, field testing of chemical and physical parameters of the water (pH, conductivity, temperature, dissolved oxygen), determination of particle size distribution of soil, processing of measurement results. Case studies and discussion.			
Literature 1. Medenica, M. & Malešev, D. (2002). Eksperimentalna fizička hemija. Beograd. 2. Marković, D., Veselinović D., Tomić, V. & Agatonović-Malinović, V. (2007). Ispitivanje zemljišta, vode i vazduha. Zavod za udžbenike. Beograd. 3. Enger, E., Smith, B.F. & Smith, B. (2000). Field and Lab Exercises in Environmental Science. 7th edition. 4. McGraw-Hill, Boeker, E. & Van Grondelle, R. (1999). Environmental Physics. 2nd edition. J. Wiley and Sons. 4. Water, Air, & Soil Pollution, An International Journal of Environmental Pollution, ISSN: 0049-6979 (Print) 1573-2932 (Online), chosen articles			
Number of lectures: 6			Other Classes
Lectures: 3	Practices: 3	Other forms of teaching: Student research work:	
Teaching methods: Lectures based on MS PowerPoint presentations, discussion and demonstration.			
Score (maximum 100 points)			
Pre-commitments	Poens	The final exam	Poens
Activity during lectures	10	Written exam	50
Practical classes	10	Oral examination	
Colloquia	30		
Seminars			
<i>Total</i>	50		50