

Table 5.2 Course specification

Type and level of studies: Bachelor			
Course name: Quality and resource management			
Course status: elective			
Number of ECTS credits: 5			
Requirement: -			
Course aim Understanding the requirements of standards in the fields of quality management and environmental management. Introducing the student to the distribution, quality and mechanisms of natural resource management.			
Course outcome Ability to recognize quality characteristics and coping necessary knowledge of quality management and environmental management systems and standards (international standards).			
Course content <i>Theory</i> Basics of quality - concept and characteristics. Quality concepts. Quality management, policy and goals. Quality management system. International standardized systems for quality management of products and services (ISO 9000), quality of work in the laboratory (ISO 17025), environment (ISO 14000). EMAS (Eco-Management and Audit Scheme). Identification and classification of resources. Resource management (mineral, forest resources, protected area, biodiversity, geodiversity and landscape diversity, water and fisheries, land). <i>Practice: Practical classes, OFT, SRW</i> ISO 17025, general principles and requirements. Quality assurance in the analytical laboratory. Elements of quality control in the laboratory. Analysis quality control (errors in analytical system, choice of test method, validation of analytical methods, management of laboratory equipment, traceability of measurements, reporting of results). Problems and challenges in practice. Index for calculating the quality of soil, water, air. Integrated quality management system.			
Literature 1. J. Hodolič, I. Budak, M. Hadžistević, Đ. Vukelić, M. Majernik, J. Chovancova, J. Pankova-Jurikova, M. Čulibrk: Sistemi za upravljanje zaštitom životne sredine, Univerzitet u Novom Sadu, Fakultet tehničkih nauka, 2013. 2. M. Heleta: Menadžment kvaliteta, 2008. 3. N. Magdalinović, M. Magdalinović -Kalinović: Upravljanje prirodnim resursima, Inorog Bor, 2007. 4. M. Bečelić-Tomin i A. Tubić: Predavanja iz predmeta, Prirodno-matematički fakultet Novi Sad, 2016. Additional literature: 1. ISO i SRPS ISO standardi: 14 001, 9001, 17025			
Number of classes of active teaching			Other classes
Lectures: 2 (30)	Practice: 2 AV (30)	OFT:	SRW:
Teaching methods Lectures, auditory exercises and consultation.			
Assessment of knowledge (maximum of 100 points)			
Pre-exam obligations	Points	Final exam	points
activity during lecture classes	5	written exam	40
practical teaching	15	oral exam	20
colloquia	20	