|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Course: | | **WATER QUALITY** | | | | | | | | |
| Course id: | |
| Number of ECTS: 6 | |
| Teacher: | | Ph.D.Anđelka Belić, Ph.D.Sima Belić (Teachers), MSc. Milica Vranešević (Assistant) | | | | | | | | |
| Course status | | Mandatory | | | | | | | | |
| Number of active teaching classes (weekly) | | | | | | | | | | |
| Lectures: 3 | | Practical classes: 2 | | | Other teaching types: | | Study research work: | | Other classes: | |
| Precondition courses | | None | | | | | | | | |
| 1. Educational goal   Introducing students to the conditions and criteria for determining the water quality assessment of different users, legislation. | | | | | | | | | | |
| 1. Educational outcomes   Enabling students to solve problems of water use in determining the quality of water in order to define the conditions and possibilities of the use of water for different purposes. | | | | | | | | | | |
| 1. Course content   The definition, aim and task items. The term water quality. The quality of ambient water, drinking water, water for irrigation. The term usability of water, specific demands of individual users. Basic terms of providing quality drinking water. Ordinance on the hygienic quality of drinking water. Ordinance on the hygienic quality of drinking water. EU Directive on drinking water. Inorganic matters in drinking water. The organic matter in drinking water. The presence of coagulation and flocculation funds. Disinfectants and disinfection by-products. Problems source protection. Health monitoring. Rating usability of irrigation water: The importance and necessity of defining the usability of water for irrigation, the basic properties of water (physical, chemical, microbiological), elements of mineralization, the impact of irrigation water on soil, plant and equipment, the basic principles of usability assessment, classification (Steblers irrigation coefficient, the classification of water per Nejgebauers, US classification, the FAO classification, categorized by Miljkovic). The dynamics and methodology of sampling water and soil. The importance of usability evaluation of irrigation water on the conservation of natural resources. The dynamics and methodology of sampling water on the water, the water treatment devices and users. Rating usability water fisheries. Rating usability of water in some industries. | | | | | | | | | | |
| 1. Teaching methods   Lectures, Consultations, Research work | | | | | | | | | | |
| Knowledge evaluation | | | | | | | | | | |
| Pre-examination obligations | | | Mandatory | Points | | Final exam | | Mandatory | | Points |
| Lecture attendance | | | No |  | | Oral part of the exam | | Yes | | 70 |
| Test | | | No |  | |  | | | | |
| Exercise attendance | | | No |  | |
| Term paper | | | Yes | 30 | |
| Literature | | | | | | | | | | |
| Ord. | Author | | Title | | | Publisher | | | | Year |
|  | Ayers M.J. Westcot D.W. | | Water quality for agriculture | | | FAO irrigation and drainage paper 29 | | | | 1985 |
|  | Chang, A.C. Page, A.L. Asano T. | | Developing human health related chemical guidelines for reclaimed and sewage sludge applications in Agriculture | | | WHO | | | | 1995 |

|  |  |  |
| --- | --- | --- |
| Znak univerziteta | UNIVERSITY OF NOVI SAD  FACULTY OF AGRICULTURE 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 8 | Znak fakulteta2 |
| Study Programme Accreditation  MASTER ACADEMIC STUDIES WATER MANAGEMENT |
| Table 5.2 Course specification | | |