|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Course: | | **Water Pollution Control** | | | | | | | | |
| Course id: 3ОUV5О23 | |
| Number of ECTS: 6 | |
| Teacher: | | Anđelka M. Belić (Teacher)/ Milica D. Vranešević (Assistant) | | | | | | | | |
| Course status | | Mandatory | | | | | | | | |
| Number of active teaching classes (weekly) | | | | | | | | | | |
| Lectures: 45 | | Practical classes: 30 | | | Other teaching types: | | Study research work: | | Other classes: 30 | |
| Precondition courses | | None | | | | | | | | |
| 1. Educational goal   The aim of the course is that students learn the complexities of water within the environmental elements of aquatic ecosystems, research methods and procedures, quality changes and protection measures. | | | | | | | | | | |
| 1. Educational outcomes   Students will gain knowledge on water protection, the impact of pollutants on their quality, and therefore on the needs and possibilities of implementation of protection measures in the existing social and economic conditions - and with the application of the current legal regulations. | | | | | | | | | | |
| 1. Course content   Theory lessons  • Evacuation of polluted water.  • Quantities of waste water fluctuation and sizing.  • The sewerage network and objects on it. Hydraulic calculation of the net.  • The complexity of environmental protection and the importance of water in it.  • Contamination of aquatic ecosystems, important pollutants.  • Indicators of quality assessment and quality requirements according to the quality.  • Database for water protection.  • Methods for collecting data on water quality.  • Technical measures for the protection of water, the principles of regional planning and technical interventions.  • Principles of modeling of water quality.  • Procedures for waste water treatment. The procedures for the processing, use and disposal of sludge.  Practical classes :  • Calculation of the amount of polluted water users and the corresponding sizes for dimensioning.  • Calculation and dimensioning of the sewerage network.  • Calculation of hydraulic and biological load.  • Calculation of the degree of purification of polluted water.  • Calculation of self-cleaning power of watercourses.  • Preparation of a term paper. | | | | | | | | | | |
| 1. Teaching methods   Oral lectures, presentations using computers | | | | | | | | | | |
| Knowledge evaluation (maximum 100 points) | | | | | | | | | | |
| Pre-examination obligations | | | Mandatory | Points | | Final exam | | Mandatory | | Points |
| Lecture attendance | | | Yes | 5 | | Oral part of the exam | | Yes | | 60 |
| Colloquium | | | Yes | 20 | |  | | | | |
| Exercise attendance | | | Yes | 5 | |
| Term paper | | | Yes | 10 | |
| Literature | | | | | | | | | | |
| Ord. | Author | | Title | | | Publisher | | | | Year |
|  | Richard Helmer and Ivanildo Hespanhol | | Water Pollution Control | | | E & FN SPON | | | | 1997 |
|  | Jamie Bartram and Richard Ballance | | Water Quality Monitoring | | | E & FN SPON | | | | 1996 |
|  | Deborah Chapman | | Water Quality Assessments | | | CHAPMAN & HALL | | | | 1992 |

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