**Table 5.1** Course specification to doctoral study programs

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| **Course name: Water quality** | | |
| **Teacher or teachers:** [**Milenković S. Slobodan**](../P%209.3%20Knjiga%20Nastavnika%20DOS%20He/21.%20Slobodan%20S.%20Milenkovic,%20redovni%20profesor.xlsx)**,** [**Milićević B. Dragan**](../P%209.3%20Knjiga%20Nastavnika%20DOS%20He/59.%20Dragan%20B.%20Milicevic,%20docent.xlsx)**,** [**Zarubica R. Aleksandra**](../P%209.3%20Knjiga%20Nastavnika%20DOS%20He/42.%20Aleksandra%20R.%20Zarubica,%20vanredni%20profesor.xlsx) | | |
| **Course status:** Elective | | |
| **Number of ECTS:** 10 | | |
| **Precondition courses:** None | | |
| **Educational goal**  Building students’ capacity for independent professional, research and scientific work in the area of communal hydrotechnics. | | |
| **Educational outcomes**  Active implementation of knowledge in the area of protection of watershed water quality | | |
| **Course content**   1. Legislative – legal acts (8)   - Water quality standards  - Epidemiological aspects  - Primary analysis clean water   1. Water resources and protection issues (12)   - Water balance, users and polluters  - Pollution concentration and propagation data  - Hydrodynamical transmission factors  - Water resources modeling quality   1. Measures and zones of water sources sanitary protection (16)   - Water polluters cadastre, and the analysis of the water quality status  - Water protection measures  - Removal of immediate causes of pollution  - Reduction of the pollution source intensity  - Water source sanitary protection zone   1. Design of the water quality protection system (16)   - Data and completeness evaluation  - System definition  - Designs of individual elements of protection  - Landscape design details   1. Realization and management of water quality protection system (8)   - Realization of the system  - Monitoring system  - Signalization and automation | | |
| **Literature**  1. Miloje Milojević, Snabdevanje naselja vodom i kanalisanje**,** Beograd, 1985.  2. Degremont: Tehnika prečišćavanja vode, Beograd (1974)  3. UTVSI: Direktiva EU o vodama, Beograd, 2005.  4. Standard Methods, APHA, AWWA, 2005.  5. Voda za piće – Standardne metode za ispitivanje higijenske ispravnosti, Beograd, 1990. | | |
| **Number of active teaching classes (weekly)** | Lectures: 4 | Study research work: 0 |
| **Teaching methods**  Lectures, mentor work, consultations, research work in laboratory and in the field, term paper. | | |
| **Knowledge evaluation (maximum 100 points)**  **Pre-examination obligations Points Final exam Points**  Term paper **55** Оral part of the exam **45** | | |