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| Course: | | **ЕNGINEERING HYDROLOGY** | | | | | | | | |
| Course id: 3ОUV5О21 | |
| Number of ECTS: **6** | |
| Teacher: | | **Milica Š. Rajić, Ph.D., Professor**  **Jasmina V. Josimov Dunđerski, Ph.D., Assistant Professor** | | | | | | | | |
| Course status | | Mandatory | | | | | | | | |
| Number of active teaching classes (weekly) | | | | | | | | | | |
| Lectures: **3** | | Practical classes: **4** | | | Other teaching types: | | Study research work: | | Other classes: | |
| Precondition courses | | None | | | | | | | | |
| 1. Educational goal   The aim of the course is that students study theoretical aspects of hydrology and methods for solving actual problem in practice. | | | | | | | | | | |
| 1. Educational outcomes   On successful completion of this course, the students will be preparing for processing and analyzing hydrological problems. Also, they will be able to use theoretical accomplishment of hydrology. | | | | | | | | | | |
| 1. Course content   *Theory lessons*   * Runoff cycle * Runoff components * Hydrograph * Hydrograph analysis * Direct and Base runoff * Separation of hydrograph * Effective rainfall (Net rainfall) * Unit hydrograph * Synthetic unit hydrograph * Flow routing * The Muskingum method * The Tangent method * Reservoir * Reservoir storage estimation * Hydrological statistics   *Practical classes :*  Numerical examples in connection with lessons. | | | | | | | | | | |
| 1. Teaching methods   Consultations, research work | | | | | | | | | | |
| Knowledge evaluation (maximum 100 points) | | | | | | | | | | |
| Pre-examination obligations | | | Mandatory | Points | | Final exam | | Mandatory | | Points |
| Lecture attendance | | | No |  | | *Theory* | | Yes | | **50** |
| Test | | | No |  | |  | | | | |
| Exercise attendance | | | No |  | |
| *Term paper* | | | Yes | **50** | |
| Literature | | | | | | | | | | |
| Ord. | Author | | Title | | | Publisher | | | | Year |
| 1. | Rajić,M., Josimov Dunđerski, J. | | Inženjerska hidrologija | | | Univerzitet u Novom Sadu, Poljoprivredni fakultet, Novi Sad | | | | 2011 |
| 2. |  | | **Textbooks in hydrology** | | |  | | | |  |

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| 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 | | |