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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 SADFACULTY OF AGRICULTURE 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 8 | Znak fakulteta2 |
| Study Programme AccreditationUNDERGRADUATE ACADEMIC STUDIES WATER MANAGEMENT  |
| Table 5.2 Course specification |