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| Course: | **SOIL CONSERVATION** |
| Course id: 3ОУВ7О27 |
| Number of ECTS: 5 |
| Teacher: | Sima S. Belić (Teacher), Milica D. Vranešević (Assistant) |
| Course status | Mandatory |
| Number of active teaching classes (weekly) |
| Lectures: 3 | Practical classes: 3 | Other teaching types: | Study research work: | Other classes: |
| Precondition courses | None |
| 1. Educational goal

Introducing students to the basic principles of erosion processes and ways of dealing with it. |
| 1. Educational outcomes

Enabling students to work on the design, construction and maintenance of reclamation facilities. |
| 1. Course content

Theory lessonsConcept and types of soil erosion, the genesis of erosion processes in the area. Wind erosion, formation and protection measures.Water erosion, classification, factors occurrence of erosion, erosion area systems planning and design works. The classification structures for erosion area. Torrential erosion, torrential streams. Facilities for the regulation of torrential flows, classification, application, materials. Transverse objects for decorating torrential flows, purpose, classification, parts of facilities. Basic principles of static and hydraulic calculation. Recommendations for construction works. Facilities for water accumulation, roles, requirements for design, construction, use and maintenance. Fundamentals determining the volume of reservoirs, choosing a place to raise the dam. Classification of dams. Concrete dams, area of application, form of dams, the properties of objects. Stone dam, the area of application, forms a dam, the properties of objects. Soft dam the application area, the dam forms, properties of objects. Earthen dam, the area of application, forms a dam, properties of objects. Parts of the dam, bottom outlet, overflow authorities, slope protection, drainage dam. Hydraulic and structural analysis of parts of the dam. The transformation of the flood wave in the storage area.Practical classesCreating graphic works at the level of conceptual design structures for torrential areas. Other graphic work represents the sizing of facilities for torrent management, for both groups of objects are planned to field exercises. |
| 1. Teaching methods

Lectures, Practical classes, Consultations |
| Knowledge evaluation (maximum 100 points) |
| Pre-examination obligations | Mandatory | Points | Final exam | Mandatory | Points |
| Lecture attendance | No |  | Oral part of the exam | Yes | 60 |
| Test | Yes | 2x5 |  |
| Exercise attendance | No |  |
| Case study | Yes | 2x15 |
| Literature  |
| Ord. | Author | Title | Publisher | Year |
|  |  | Internet |  |  |

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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 |