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| Course: | **CONSTRUCTION OF LAND RECLAMATION** |
| Course id: 3ОУВ8О30 |
| 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 function, design details and the basic principles of maintenance reclamation construction. |
| 1. Educational outcomes

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

Theory lessonsThe task and role of water construction and land reclamation construction, the basic principles of dimensioning, static and hydraulic calculation, classification of objects. The basic principles of tracing, marking and construction works, sizing of drainage network. Excavation of the canal. Canal maintenance mechanical, biological and chemical methods. Traffic construction in the canal network, the classification of culverts and bridges, types of culverts that are used in drainage systems. Hydraulic and static calculation of culverts and bridges, choice of the canal network, used materials, methods of construction and maintenance. Aqueducts and dickers. Construction on drainage systems. Construction at the fish ponds. Construction for level and flow. Classification of the constitution, the main movable and immovable parts, objects, static and hydraulic calculations construction. Basics of dimensioning of sliding constitution. Pumping station on drainage systems, constructive planning, basics of dimensioning objects and parts of the building, their purpose and function. Linings, materials, principles of dimensioning. Principles of automation pumping station on melioration systems. Small objects on the canal network of irrigation systemsPractical classesCreating graphic works at the conceptual design of construction that characterize the drainage system. Other graphic paper presents sizing pumping stations on the system for drainage. Selection of the structural solutions and adoption of the dimensions of the suction basin, building pumping stations, pressure pipeline and a selection of authoritative aggregates. For both groups of buildings are planned field trips. |
| 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 |