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| Course: | | **SEDIMENT MANAGEMENT** | | | | | | | | | | |
| Course id: | |
| Number of ECTS: 4 | |
| Teacher: | | Savic Radovan | | | | | | | | | | |
| Course status | | Elective | | | | | | | | | | |
| 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   The topic will give an introduction to sediment origin, transport and quality issues in lowland agricultural area; wind and water erosion control and sediment management principles. | | | | | | | | | | | | |
| 1. Educational outcomes   On successful completion of this subject, the students should be able to identify and solve problems of sediment origin, transport and deposition | | | | | | | | | | | | |
| 1. Course content   Sediment origin and properties; Mechanical composition, basic chemical properties, hazardous matters and compounds; Sediment quality issues and assessment; Criteria for sediment classification; Sediment transport and deposition; Sediment environmental and hydrotechnical impacts; Principles of soil conservation and erosion by water and wind control; Nonpoint source pollution (transport mechanisms, contamination) and role of erosion processes; Quantity and quality of drainage and irrigation canal sediments; Dredged material disposal; contaminated sediment treatment and disposal methods; Beneficial uses of dredged material; Best management practices; Principles for sediment management; Sustainable sediment management; Sediment monitoring; Legislation, regulations, conventions and recommendations. | | | | | | | | | | | | |
| 1. Teaching methods   Lectures and exercises | | | | | | | | | | | | |
| Knowledge evaluation (maximum 100 points) | | | | | | | | | | | | |
| Pre-examination obligations | | | Mandatory | Points | | | Final exam | | Mandatory | | | Points |
| Assignments | | | Yes | 60 | | | Written and Oral | | Yes | | | 40 |
| Literature | | | | | | | | | | | | |
| Ord. | Author | | Title | | | Publisher | | | | | Year | |
|  | Salomons W., and Brils J. | | Contaminated Sediments in European River Basins | | | European Sediment Research Network | | | | | 2004 | |
|  | Owens P. | | Sediment management at the river-basin scale | | | National Soil Resources Institute, Cranfield University, UK | | | | | 2005 | |
| 3. | Barcelo D. | | Sediment quality and impact assessment | | | IIQAB-CSIC, Dept. of Environmental Chemistry, Barcelona, Spain | | | | | 2005 | |
| 4. |  | |  | | | Internet sources (articles, reports, presentations) | | | | |  | |

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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  MASTER ACADEMIC STUDIES - AGRICULTURAL WATER MANAGEMENT (LOLAqua) |
| Table 5.2 Course specification | | |