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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 SADFACULTY OF AGRICULTURE 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 8 | Znak fakulteta2 |
| Study Programme AccreditationMASTER ACADEMIC STUDIES - AGRICULTURAL WATER MANAGEMENT (LOLAqua) |
| Table 5.2 Course specification |