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| Curse: | *Environmental and Natural Resources Management* |
| Course id: 3ОАЕ7О31 |
| Number of ECTS: 5 |
| Teacher: | Vesna O. Rodić |
| Assistant: | Jelena J. Karapandžin |
| Course status | Mandatory |
| Number of active teaching classes (weekly) |
| Lectures: 4 | Tutorials: 2 | Other teaching types: | Study research work: | Other classes: |
| Precondition courses | None |
| 1. Educational goal

Bearing in mind the limited natural resources on one hand, and assimilation capacity of the environment on the other hand, the goal of the course is to enable students (as future decision-makers) to perceive the relationships between agriculture and environment, to recognise the unsustainability of making exclusively economic valuation and understand the need to include the environmental criteria in the process of decision-making. |
| 1. Educational outcomes

Through this course, students develop the capability of critical thinking, adopt new attitudes and values related to natural resources and environment, gain better understanding of the importance of sustainable development, become capable of perceiving the interdependence between agriculture and environment, and of organising production which is both economically acceptable and environmentally friendly. |
| 1. Course content

*Theoretical Instruction*Introduction; The main environmental problems; The main causes of contemporary ecological crisis; Natural resources – the concept and classification; Sustainable use of natural resources; Problems in natural resources management in developing countries; The concept of the sustainable development; The strategy of the sustainable development in Serbia; Agriculture and environment; The problems in management of water and land resources; Environmentally friendly systems of agricultural production; Organic production; Environmental monitoring; Measures and actions of environmental protection; Weaknesses of market economy; The concept of externalities; Internalisation of external costs; Optimisation of socially-acceptable level of pollution (Coase theorem and *Pigouvian taxation*); Environmental management tools; Importance of international cooperation; Legal regulations in the field of environmental protection.*Practical Instruction*Tutorials include seminar papers (in teams) and active participation of students in discussions on selected topics. The topics are tailored to students’ interests and are related to the current issues in this field. The topics may include: the Millennium Development Goals, climate changes, demographic pressure on the environment, negative impact of urbanisation of the environment, environmental awareness, the importance of developing alternative energy sources, problems in waste management, recycling as a means of environmental protection, the possibility of rational use of land using vertical farms, the importance of green spaces for the quality of environment, GMO – opportunity or threat, agriculture as a pollutant, agriculture as a producer of energy, the importance of good agricultural practice, the importance of using GPS for environmental protection, international sources of assistance for good environmental protection, ecological footprint, the importance of environmental management standardisation (ISO 14000), L*ocal Environmental* Action Plan(LEAP), public participation in environmental decision-making. |
| 1. Teaching methods

Traditional lectures (based on Power Point presentations), seminar papers, discussion groups, individual tutorial work with students, field work (visiting institutions or companies and discussion about the main environmental issues and their possible solutions). |
| Knowledge evaluation (maximum 100 points) |
| Pre-examination obligations | Mandatory | Points | Final exam  | Mandatory | Points |
| Lecture attendance | Yes/No | 9 | *Oral part exam* | Yes | 40 |
| Practical work | Yes/No | 6 |  |
| Test 1 and test 2 (15+20) | Yes/No | 35 |
| Seminar paper | Yes/No | 10 |
| Literature  |
| Ord. | Author | Title | Publisher | Year |
|  | Rodić, V. | Environmental and Natural Resources Management - course reader available free of charge  | Faculty of Agriculture, Novi Sad | 2012 |
|  | Jonathan, H. | Environmental and Natural Resource Economics: A Contemporary Approach (translated into Serbian) | DATA status Belgrade | 2009 |
|  | Milanović, M., Cvijanović, D., Cvijanović, G. | Prirodni resursi – ekonomija, ekologija, menadžment (Natural Resources - Economy, Ecology, Management) | Institute for Agricultural Economics Belgrade | 2008 |
|  | Golušin, M. | Ekomenadžment (Ecomanagement) | Faculty for Entrepreneurial Management Novi Sad | 2006 |
|  | Bošković, J., Ivanc, A., Simić, J. | Održivi razvoj poljoprivrede i zaštita životne sredine (Sustainable agricultural development and environmental protection) | Megartend univerzitet, Beograd | 2003 |
|  | Pešić, R. | Ekonomija prirodnih resursa i životne sredine | Poljoprivredni fakultet, Zemun-Beograd | 2002 |