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| Course: | **WATER RESOURCES ECONOMICS** |
| Course id: |
| Number of ECTS: 4 |
| Teacher: | Zorica Sredojevic |
| Course status | Elective |
| Number of active teaching classes (weekly) |
| Lectures: 3 | Practical classes: 3 | Other teaching types: | Study research work: | Other classes: |
| Precondition courses | Principles of economics . Operational research. IT skills |
| 1. Educational goal

Introduction to water economics problems. Using of modern econometric methods in planning and utilization of water resources. |
| 1. Educational outcomes

On successful completion of this subject, the students should: a) master the bases theory of water investment and financingb) master the water pricing methodsc) master the development planning methodsd) be able to apply theoretical knowledge on existing systemse) be able to apply theoretical knowledge in water management and agriculture companies g) improve IT skills. |
| 1. Course content
* Introduction to engineering economy (price theory, projects feasibility, cost allocation);
* Economic aspects of sustainable development and sustainable water resource use (approach, valuing methods);
* Economic aspects of water protection. Flood control (approach and methodology for cost identification); Pollution control;
* Economics of drainage (investment, cost and efficiency );
* Economic aspect of water supply. Irrigation (investment cost and efficiency). Selection of the optimal irrigation technology and structure of agricultural production;
* Economics of fishery and aquaculture (investment, cost and efficiency);
* Economics of water quality control (investment and cost of waste-water purification). Water treatment economics.
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| 1. Teaching methods

Lectures and exercises. Students will accomplish a semester project and present results in oral and in writing. The work counts for 60% of the final grade. The lectures are held in English. Retake exams may be oral only. |
| 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 |
|  | Kristi A., andFarooqi R. | Economic Instruments for Water Quality and Quantity Management | CABREE, University of Alberta, Edmonton | 2003 |
|  | Correira F.N. | Selected Issues in Water Resources Management in Europe | Balkema, Rotterdam. | 1998 |
|  | Dinar A. | The Political Economy of Water Pricing Reforms | Oxford University Press, United States | 2000 |
|  | Spulber N., and Sabbaghi A. | Economics of Water Resources: From Regulation to Privatization | Kluwer Academic Publishers, Boston. | 1998 |
|  | Tietenberg T. | Environmental Economics &Policy | The Addison-Wesley series in Economics, Boston. | 2007 |
|  |  | Economic Instruments and Water Policies in Central and Eastern Europe: Issues and Options | 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 |