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| Course: | *Growing of alternative field crops* |
| Course id: 3OРT6И09 |
| Number of ECTS: 6 |
| Teacher: | Ph.D. Dragana Latković; contributor: Ph.D. Goran Jaćimović |
| Course status | Elective |
| Number of active teaching classes (weekly) |
| Lectures: 2 | Practical classes: 2 | Other teaching types: | Study research work: | Other classes: |
| Precondition courses | None |
| 1. Educational goal

The aim of the course is that students learn how to in existing agro-ecological conditions may to achieve high and stable yields of good quality with satisfactory profitability and preservation of soil fertility. Will be studied the following, in the world significant, but in our conditions less represented or promising plant species: specific types of wheat (spelt, kamut etc.) rye, sorghum, millet, rice, buckwheat, lentils, chickpeas, faba beans, grass pea, peanut, castor, sesame seeds, safflower, cotton, kenaf, abutilon, chicory, sweet potatoes. |
| 1. Educational outcomes

After completion of lectures and exercises student will be qualified and informed with the basic elements of growing technology of alternative field crops. After passing the exam, the candidate will be qualified to lead the production of these plants and to be successful in their production; and will be trained to combine the knowledge, ability and skills with the given environmental and edaphic conditions. |
| 1. Course content

***Theoretical teaching***: For each plant species will be studied following chapters: 1) General characteristics: economic importance, area and yields in the world and in our country, geographic distribution, origin and history of plant species. 2) Biological characteristics and requirements for growing conditions. 3) Production technology: crop rotation (rotation and convenience in the crop rotation), tillage; seedbed preparation; fertilization (manner, time and amount of nutrients), sowing (choice of varieties and hybrids, seed quality, seed preparation for sowing, time and method of sowing, sowing rate or crop density which need to be achieved with emphasis on varietal specificity); crop care (fight against weeds, pests and diseases, eventually application of nitrogen, inter-row cultivation and specific measures of care); harvest (physiological and technological maturity, time and method of harvesting, processing and storage of finished products). In the context of growing technology, special attention will be paid to the quality of the applied measures and cost-effectiveness.***Practical exercises***: On the exercises, students will be conversant with the morphology of the above species, with the stages of growth and development (phenological phases). Within exercises will be presented fresh and dry plant material and photos (slides) of plants. Looks of certain plants students will be able to see in the botanical garden. |
| 1. Teaching methods

Lectures, Practice/ Practical classes, Consultations |
| Knowledge evaluation (maximum 100 points) |
| Pre-examination obligations | Mandatory | Points | Final exam | Mandatory | Points |
| Activity during lectures | Yes | 5 | *Oral part of the exam* | Yes | 70 |
| Colloquium | Yes | 25 |  |
| Literature  |
| Ord. | Author | Title | Publisher | Year |
|  | John H. Martin, Richard P. Waldren, David L. Stamp | Principles of Field Crop Production | Pearson Education Inc., Upper Saddle River, New Jersey, Columbus, Ohio, USA | 2006 |
|  | Franc Bavec | Organic Production and Use of alternative Crops | Taylor and Francis Group | 2007 |
|  | Internet sources; Thematic domestic and international journals |
|  | Lecture notes of professors and assistants |

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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 FRUIT SCIENCE AND VITICULTURE |
| Table 5.2 Course specification |