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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  AGRICULTURAL TOURISM AND RURAL DEVELOPMENT  |
| Table 5.2 Course specification |

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| Course: | **Processing and Storage of Agricultural Products** |
| Course id: 7ОАТ3О13 |
| Number of ECTS: 5 |
| Teacher: | Professor Mirko Babić, PhD; Ivan Pavkov, PhD |
| Assistant: | Milivoj Radojčin |
| Course status | Mandatory |
| Number of active teaching classes (weekly) |
| Lectures: 2 | Tutorials: 2 | Other teaching types: | Study research work: | Other classes: |
| Precondition courses | None |
| 1.Educational goalsIntroducing students to basic principles and technical systems for processing and storing agricultural and other plant materials.  |
| 2.Educational outcomes Preparing students for recognising the possibilities of processing and storing agricultural and other plant materials as basic employment in rural development and tourism.  |
| 3.Course content*Theoretical instruction:* Course introduction; Basic physical properties of biomaterials as a basis of processing and classification; Mechanical processing of biomaterials; Thermal and diffusional processes of biomaterial processing; Drying principles; Drying of various agricultural products and biomaterials; Storage of various biomaterials; Cereal processing; Fruit and vegetable processing; Legume processing; Animal product processing; Alcohol beverage production; Cooling and freezing; Aseptic packaging; Quality control and production hygiene; Packing and packaging; Sustainable energy models; Renewable energy sources and principles of their conversion into usable forms; Basic technical concepts of investment activities; Ecological aspects of production; Tourist employment. *Practical instruction:*Laboratory tutorials on physical properties of biomaterials. Basic tasks in matter balance and energy in production. Practical tutorials in the Laboratory for Biosystems engineering on fruit, vegetable and other biomaterial drying and storing. Graphic representation of matter balance in processing. Analysis of investment activity sequence. Seminar paper – from present state to projects of new facilities aimed at employment in a concrete village.  |
| 4.Teaching methodsOral lectures are accompanied by PPT presentations and practical instruction is conducted via calculation tutorials, laboratory tutorials, practical work and seminar papers.  |
| Knowledge evaluation (maximum 100 points) |
| Pre-examination obligations | Mandatory | Points | Final exam  | Mandatory | Points |
| Lecture participation | Yes/No | **5** | Written exam | Yes/No | - |
| Oral exam | Yes/No | **10** |
| Tutorial participation | Yes/No | **5** |  |
| Laboratory practice | Yes/No | **3** |
| Seminar paper/project | Yes/No | **12** |
| Tests | Yes/No | **65** |
| Literature  |
| Ord. | Author | Title | Publisher | Year |
| 1. | Mirko Babić, Ljiljana Babić, Ivan Pavkov, Milivoj Radojčin | Prerada i čuvanje poljoprivrednih proizvoda, autorizovana predavanja | Poljoprivredni fakultet, Novi Sad | 2012 |
| 2. | Ljiljana Babić, Mirko Babić  | Sušenje i skladištenje, 2. izdanje | Poljoprivredni fakultet, Novi Sad | 2012 |
| 3. | Enachescu Dauthy, Mircea | Fruit and Vegetable Processing, Food and Agriculture Organization of the United Nations | FAO Agricultural Services Bulletin No.119, Rome, p. 240. | 1995 |