|  |  |
| --- | --- |
| Course: | *HARVEST AND POSTHARVEST OF FRUIT AND GRAPES* |
| Course id: |
| Number of ECTS: 6 |
| Teacher: | **Nenad P. Magazin, Nada S. Korać** |
| Course status | Mandatory |
| Number of active teaching classes (weekly) |
| Lectures: 4 | Practical classes:3 | Other teaching types: | Study research work: | Other classes: |
| Precondition courses | None/navesti ako ima |
| 1. Educational goal

The goal of course is the acquisition of knowledge by students in the field of harvesting and storing fruits and table grapes as well as making students able to apply this knowledge in practice in the process of harvesting and storing fruits. Students will be trained to independently make decisions about the time of harvesting of certain types of fruits and table grapes based on parameters and methods that will be presented in this course. The course allows students to learn about the various aspects of the fruit post harvest, fruits biochemistry, physiology and pathology, which is of great practical importance in determining the parameters and length of storage of fruits. Students will also be familiar with the modern types of storage capacities for fruit, with the following equipment as well as their mode of operation and management. |
| 1. Educational outcomes

The acquired level of knowledge will enable graduates to independently make appropriate decisions in the production process from harvesting to selling fruit.Since at harvest and during storage of fruits comes to significant losses, acquired knowledge will significantly help in their impairment whether it be on the individual farm, company or cooperative. |
| 1. Course content

Theory lessonsBiological traits of the fruit. The biochemical and physiological processes in harvested fruit. Changes during ripening of fruits. Determination of the moment of harvest and harvest techniques. The technology of fruit storage. Nonparasitic and parasitic diseases on fruits at the time of harvest and during storage. Packaging for fruit and table grapes. Preparation of fruit and table grapes for the market. Transport of fruit and table grapes. New methods of storing fruit and table grapes and treatments after harvest. Control of storage conditions.Practical teaching: Methods for determining the moment of harvesting. Fruit respiration. Determination of total acidity of the fruit. Determination of dry matter content in the fruits. Identifying nonparasitic and parasitic diseases of fruits. Practical demonstration of packaging used in certain types of fruit and table grapes. Introducing into the coldstore equipment. Facilities for storage of fruits. Visiting the coldstore. |
| 1. Teaching methods

Lectures, presentations, films, orchard visits, laboratory work, practical work on experimental fields |
| Knowledge evaluation (maximum 100 points) |
| Pre-examination obligations | Mandatory | Points | Final exam (izabrati) | Mandatory | Points |
| Lecture attendance | Yes | 5 | *Oral part of the exam* | Yes | 3 |
| Test | Yes | 5 |  |
| Exercise attendance | Yes | 40 |
| *Ovde se mogu pojaviti i kolokvijumi i seminarski rad (npr. Test, Term paper)* | Yes | 20 |
| Literature  |
| Ord. | Author | Title | Publisher | Year |
|  | Gvozdenović, D., Davidović, M.: Berba i čuvanje voća, Nolit, Beograd, 1990. |
|  | Keserović, Z, Korać, N., Magazin, N., Grgurević, V., Gvozdenović, D., Bijelić, S., Vračević, B.: Proizvodnja voća i grožđa na malim površinama, Poljoprivredni fakultet Novi Sad, 2008. |
|  | Magazin, N., Keserović, Z., Milić, B., Dorić, M., Gošić, J.: Berba i čuvanje plodova jabuke iz integralne proizvodnje, Poljoprivredni fakultet Novi Sad, 2013. |
|  | Žunić, D., Garić, M.: Posebno vinogradarstvo – Ampelografija 2, Poljoprivredni fakultet Priština, 2010. |
|  | Wills, R., McGlasson, B., Graham, D., Joyce, D.: Postharvest: an introduction to the physiology of fruit, vegetables and ornamentals, CAB International, Velika Britanija, 2007. |

|  |  |  |
| --- | --- | --- |
| 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 |