**DESCRIPTION OF A STUDY COURSE – SYLLABUS**

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| **Title of a course** | **Viticulture IV** | | | | |
| **Study programme** | **Professional undergraduate study Winemaking** | | | | |
| **Status of a course** | Obligatory | | | | |
| **Year of study** | 2. | **Semester** | S | **ECTS credits** | 7 |
| **Goals of a course** | | | | | |
| Acquiring knowledge and skills necessary to interpret and identify changes occurring in the berry during ripening and to determine the appropriate harvesting term and method; irrigation water, determining the appropriate way of maintaining soil in the vineyard, organizing nursery production of grapevines, identifying the damage to the vine caused by abiotic and biotic factors and implementing measures to mitigate the negative effects of these damage and to familiarize yourself with the specificities of table grape cultivation. | | | | | |
| **Conditions for enrolling course** | | | | | |
| No conditions | | | | | |
| **Learning outcomes on a level of a study programme which includes course** | | | | | |
| Outcome 1: Plan the planting of vineyards with regard to the ecological and agro-climate conditions of the production unit.  Outcome 2: Interpret soil analysis results and optimize pedological soil properties.  Outcome 3: Perform the care of the grapevine plantations in accordance with the cultivation form and maintain the vineyard in view of the technological and ecological conditions of production. | | | | | |
| **Expected learning outcomes on a level of a course** | | | | | |
| 1. Interpret the changes that occur in the berry during ripening and determine the appropriate date and method of harvesting. 2. Analyse the results of soil analysis and water balance data, and determine the required quantities of mineral and organic fertilizers for vineyard fertilization, the required amounts of water for irrigation, and the manner of soil maintenance in vineyards. 3. Organize nursery production of grapevine grafts. 4. Identify grapevine damages caused by abiotic and biotic factors and implement measures to mitigate the negative effects of the damage. 5. Select and describe specific cultivation technologies for the production of table grapes. | | | | | |
| **Content of a course** | | | | | |
| Analysis of vintage in the previous vegetative year. Fertilization of grape vine. Vine’s needs for nutrients and their usage. Fertilization of vineyard. Types of composts and ways of their application. Macro and microelements of fertilizing grape vine. Plant-housing. Ecologically-sustainable vine growing. System of soil maintenance. Tillage. Soil grassing. Soil mulching in vineyard. Application of herbicides. Combined systems of soil maintenance. Commonest weeds in vineyard. Vine damages caused by abiotic and biotic factors. Damages caused by high and low temperatures, hail, protection agents. Other damages. | | | | | |
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