**DESCRIPTION OF A STUDY COURSE – SYLLABUS**

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| **Title of a course** | **Viticulture III** | | | | |
| **Study programme** | **Professional undergraduate study Winemaking** | | | | |
| **Status of a course** | Obligatory | | | | |
| **Year of study** | 2. | **Semester** | W | **ECTS credits** | 6 |
| **Goals of a course** | | | | | |
| The objectives of the course are to provide students with the necessary knowledge and experience for the organization and implementation of the activities that are carried out for the purpose of raising the vineyard with regard to the characteristics of the plot for planting and the desired type of vineyard production, to select suitable elements of the backing in the vineyard, to design a system of growing vine in ripe and green, for the selection of suitable vineyards with regard to the ecological conditions of cultivation and the desired type of viticulture and for the implementation of grapevine cultivation by hybridization and methods of mass, clonal and sanitary selection. | | | | | |
| **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. Design vineyard raising and determine the steps to be taken during vineyard cultivation with regard to the characteristics of the plot for planting and the desired type of viticulture production. 2. Select suitable support elements for the purpose of raising a vineyard and calculate the amount of required support elements. 3. Design (growing) grapevine cultivation systems by winter and summer pruning and describe their characteristics. 4. Describe the characteristics of various substrates for grapevine and select the appropriate grapevine substrate with regard to the ecological conditions of cultivation and the desired type of viticulture production. 5. Describe the manners of grapevine breeding by hybridization and methods of mass, clonal and sanitary selection. | | | | | |
| **Content of a course** | | | | | |
| Agro-ecological conditions of viniculture. Warmth. Rain. Light. Winds. Starting vine plantations. Arranging production area. Improving physical, chemical and biological features of soil. Preparing surface for planting vineyard. Other preparatory activities before planting. Planting vine roots and shoots. Care of young vineyard. Systems of vine growing. Elements and names of growing. Growing models and basic features. Complex growing systems. Renewal and changes of growing system. Supports in vineyard. Wooden posts and poles. Stanchions made of other materials. Wire in vineyard. Other materials used for supporting, binding of tree, branching and sprouts. | | | | | |
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