**DESCRIPTION OF A STUDY COURSE – SYLLABUS**

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| **Title of a course** | **Plant protection** | | | | |
| **Study programme** | **Professional undergraduate study Winemaking** | | | | |
| **Status of a course** | Obligatory | | | | |
| **Year of study** | 2. | **Semester** | S | **ECTS credits** | 6 |
| **Goals of a course** | | | | | |
| Through theoretical and practical classes, students gain knowledge and learn about the importance and importance of plant protection in plant production, plant pests, measures and methods of protection, the distribution of plant protection products, their application, mechanism of action, hazards and risks of application, and environmental protection. Acquired general knowledge in the field of plant protection will help in understanding the special part in the identification of vine pests, their biology and ecology, characteristic types of damage and methods and measures for their monitoring and control, all in accordance with ecological and sustainable development. | | | | | |
| **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.  Outcome 4: Determine the economically significant grapevine pests and implement preventative and curative methods of plant protection.  Outcome 5: Interpret the role of microorganisms and apply adequate cultures in wine production.  Outcome 11: Present the wine professionally, using professional terminology in describing and evaluating the wine, and lead wine tasting by interpreting the sensory experiences of the wine.  Outcome 12: Use the legislation (Act and Regulations on wine). | | | | | |
| **Expected learning outcomes on a level of a course** | | | | | |
| 1. Determine the term plant protection. 2. Know plant protection products, methods and measures of application, the impact of the application of protection measures on humans, animals and the environment. 3. Distinguish between abiotic and biotic causes of plant diseases, plant pests and weeds. 4. Determine the harmfulness threshold based on the pest and crop based on the condition of the plantation. 5. Define economically the most significant pests of Mediterranean crops. 6. Recommend methods and measures for the protection of Mediterranean crops. | | | | | |
| **Content of a course** | | | | | |
| Introduction and legal regulations. General terms related to plant pests. Plant protection (phytomedicine). Plant protection agents (Phyto pharmacy) – general part. Plant protection agents (Phyto pharmacy) – special part. Mechanical and physical aids in plant protection. Plant pathology – term, definition, diseases and their agents. Abiotic agents of diseases. Epidemiology and prediction of plant diseases. Importance and task of applied entomology. Morphology, anatomy and physiology of insect. Systematics. Class: Insecta, Arachnoidae, Myriapoda, Nemathelminthes, Gastropoda, Mammalia, Aves. Methods of checking entomofauna. Polyfagous pests. Definition of weed, classification of weed, damages caused by weed. Systems of integrated plant protection. Integrated plant protection according to OILB suggestion. Integrated protection of: vine, apple, pear, peach, apricot, plum, sweet cherry, sour cherry, strawberry, almond, hazel, oak, citrus fruits, olive. Preparation of plant protection plan by crops. | | | | | |
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