**DESCRIPTION OF A STUDY COURSE – SYLLABUS**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Title of a course** | **Growing of vegetables** | | | | |
| **Study programme** | **Professional undergraduate study Winemaking** | | | | |
| **Status of a course** | Elective | | | | |
| **Year of study** | 2. | **Semester** | w | **ECTS credits** | 4 |
| **Goals of a course** | | | | | |
| Introduce students to the importance and possibilities of sustainable vegetable cultivation, species, affiliations to botanical families, concept of crop rotation, quality, types and characteristics of bioactive substances, technologies of cultivation of basic vegetable species. Introduce students to the possibilities of processing, storing and storing vegetables. | | | | | |
| **Conditions for enrolling course** | | | | | |
| No conditions | | | | | |
| **Learning outcomes on a level of a study programme which includes course** | | | | | |
| Outcome 2: Interpret soil analysis results and optimize pedological soil properties.  Outcome 4: Determine the economically significant grapevine pests and implement preventative and curative methods of plant protection. | | | | | |
| **Expected learning outcomes on a level of a course** | | | | | |
| 1. Identify types of vegetables, Latin names, family affiliation, and seeds of selected vegetable species. 2. Assess the quality and health and nutritional value of vegetables based on their characteristics. 3. Plan crop rotation in vegetable growing. 4. Choose the cultivation conditions and technologies of the selected species and assortments and plan crop rotation. 5. Interpret the manner of keeping and storing vegetables. | | | | | |
| **Content of a course** | | | | | |
| Importance and position of vegetable growing in agriculture. Improvement possibilities of vegetable production in Croatian agriculture. Requirements needed for setting up economy of vegetable growing. Vegetables and nourishment. Parting of vegetables. Propagation of vegetable crops. Factors of fructification. Deciding on technological ripening of vegetables. Influences of outdoor vegetative factors on growing of vegetable crops. Phytohormones and growth inhibitors in vegetable growing. Characteristics of soil for vegetable-growing and tillage practices. Soil as substrate in vegetable production. Use of soil analysis in determining doses of fertilizers. Dressing and fertilizers. Systems of plant production in vegetable growing. Basics of vegetable protection. Picking, packing and transportation of vegetables. Protected areas. Irrigation of vegetable crops. Technical procedures of seeding, planting and picking vegetable crops. Growing of vegetable varieties according to basics of botany, biochemistry, physiology, feeding, general production and plant protection. | | | | | |
|  | | | | | |