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|--|---|-----------------|---|---------------------|---|
| <b>Title of a course</b>   | <b>Agriculture Basics with Environment Protection</b>                 |                 |   |                     |   |
| <b>Study programme</b>   | Undergraduate Professional Study Programme of Sustainable Agritourism |                 |   |                     |   |
| <b>Status of a course</b>  | Obligatory  |                 |   |                     |   |
| <b>Year of study</b>   | 1   | <b>Semester</b> | I | <b>ECTS credits</b> | 4 |
| <b>Goals of a course</b>   |   |                 |   |                     |   |
| Introduce students to the basics of sustainable agricultural production. Introduce to students the application of meteorological parameters to improve production and methods for maintaining soil fertility. Introduce students to agritourism planning according to environmental principles.  |   |                 |   |                     |   |
| <b>Conditions for enrolling course</b>   |   |                 |   |                     |   |
| No conditions  |   |                 |   |                     |   |
| <b>Learning outcomes on a level of a study programme which includes course</b>   |   |                 |   |                     |   |
| Outcome 2: Assess the suitability of environmental and edaphic factors for sustainable plant and animal production.<br>Outcome 3: Select species, assortments and breeds, as well as the technology for cultivation, breeding and maintaining the health of plants and animals.<br>Outcome 7: Recommend environmentally friendly methods of hygiene, maintenance and waste management in agriculture, tourism and catering.  |   |                 |   |                     |   |
| <b>Expected learning outcomes on a level of a course</b>   |   |                 |   |                     |   |
| 1. Apply climate and meteorological data to advance agricultural production<br>2. Recommend irrigation systems<br>3. Calculate water balance and irrigation rations<br>4. Calculate and determine the ameliorative fertilization of plantations<br>5. Recommend methods for improving the physical, chemical and microbiological properties of soil<br>6. Select appropriate environmentally friendly methods of sustainable agricultural production and good agricultural practices<br>7. Assess opportunities for improving agricultural production and agritourism operations with regard to waste reduction and environmental protection |   |                 |   |                     |   |
| <b>Content of a course</b>   |   |                 |   |                     |   |
| Climatic parameters and their influence on agricultural production. Irrigation systems. Methods and techniques of irrigation. Physical, chemical and micro-biological features of soil. Sustainable soil processing. Plant nutrition and fertilization planning. A system of sustainable waste management. The influence of agricultural and agritourism waste on the components of the environment. Managing waste from agriculture and agritourism. Reducing the production, recycling and usage of garbage from agriculture and agritourism. Creating a comprehensive system of garbage management on an estate.                          |   |                 |   |                     |   |