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| **Study programe:** | **Professional graduate study Programme *Agriculture* - Sustainable and Organic Agriculture** | |
| **Course:** | **SUSTAINABLE DEVELOPMENT IN AGRICULTURE** | |
| **Course Code:** 192631  **Course Status**: compulsory | **Semester:** **I** | **ECTS credits: 6** |
| **Course Holder:** | **Zvjezdana Augustinović,** Ph.D., professor of professional studies | |
| **Course Associates:** | Sandra Kantar, Ph.D., professor of professional studies  Silvije Jerčinović, Ph.D., professor of professional studies | |
| **Modes of delivery:** | **Number of hours** | |
| Lectures | 40 | |
| Exercises | 10 | |
| Seminars | 10 | |

**COURSE OBJECTIVES:** To train students to think independently and critically about the possibilities of sustainable development in agriculture in order to be able to predict which of the planned interventions in agricultural production will, in the long run, cause the least damage to the environment, be economically profitable, socially just and ethically acceptable.

**COURSE CONTENT**

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|  | **Course units** | **Modes of delivery:** | | | **Places of delivery** |
| **L** | **E** | **S** |
| 1. | Getting to know the subject and way of working. Familiarization with literature, seminar topics and the method of taking the exam. | 1 |  |  | lecture hall |
| 2. | The concept of sustainable development and sustainability. Principles of sustainable development. A new concept of sustainable development. Global Sustainable Development Goals until 2030. Analysis of Global Sustainable Development Goals. | 2 |  |  | lecture hall |
| 3. | Strategies and documents on sustainable development. Agenda 21. Studies of sustainable development. Documents on sustainable development. Sustainable Development Strategy of the Republic of Croatia. Institutionalization of the Global Sustainable Development Goals. | 2 |  |  | lecture hall |
| 4. | Integral sustainability and dimensions of sustainable development. Ecological, socio-cultural, political and economic dimensions of sustainability. Sustainable development as social change. | 2 |  | 1 | lecture hall |
| 5. | Sustainable development as a new worldview  Indicators of sustainable development. Sustainable development of the rural area. Sustainable development of cities. Examples of good practice in Croatia. | 2 |  | 1 | lecture hall |
| 6. | Sustainable communities. Carrying capacity of the community. Solidarity exchange groups. Examples of good practice. Volunteering | 2 |  |  | lecture hall |
| 7. | Education and training for sustainable development. Lifelong learning for sustainable development. | 1 |  | 1 | lecture hall |
| 8. | Traditional ecological knowledge. Local knowledge about the environment. Heritage and sustainable development. Ecofeminism | 3 |  |  | lecture hall |
| 9. | Ecological footprint. Calculation of ecological footprint in the world and in Croatia. Ecological debt. Human Development Index. Growth limits | 1 | 1 |  | lecture hall/lecture hall for informatics |
| 10. | Sustainability and the concept of modern economic development. Interdependence of environment and economic development. | 3 |  | 1 | lecture hall |
| 11. | Economic development and growth. Daly's entropic setting of a stable economy versus unsustainable development | 2 |  | 1 | lecture hall |
| 12. | Sustainable development as a definition of a new economic paradigm. Promotion of social and economic well-being - the welfare state. Corporate social responsibility | 2 |  |  | lecture hall |
| 13. | Sustainable marketing and other instruments for achieving economic sustainability. Corporate social responsibility. Social entrepreneurship. | 2 |  | 1 | lecture hall |
| 14. | Socially responsible business - responsible business policies | 2 |  | 1 | lecture hall |
| 15. | Rational/sustainable use of energy and natural resources (water, land, forests, etc.) | 1 |  |  | lecture hall |
| 16. | Energy sources with regard to their generation - non-renewable and renewable sources. Renewable energy sources | 1 |  | 1 | lecture hall |
| 17. | Energy utilization of biomass and biofuels in agriculture |  |  | 1 | lecture hall |
| 18. | Conventional agriculture as a source of environmental pollution | 3 |  |  | lecture hall |
| 19. | Approaches and methods of agricultural production with the aim of increasing sustainability - integrated, organic, sustainable, biodynamic, and urban agriculture | 3 | 1 |  | lecture hall |
| 20. | Definitions and objectives of sustainable agriculture | 1 |  |  | lecture hall |
| 21. | European Green Plan, Legislation in integrated and organic production of agricultural products. | 1 |  | 1 | lecture hall |
| 22. | Field teaching includes a visit to a lecture, participation in a workshop, conference or similar event that complements the teaching content | 3 |  |  | lecture hall |
| 23. | Field teaching includes a visit to a lecture, participation in a workshop, conference or similar event that complements the teaching content |  | 8 |  | Outside university |

Forms of teaching: L=lectures; E=exercises; S=seminars,

**LEARNING OUTCOMES (LO)**

After passing the exam, the student will be able to:

LO 1. Present sociological, economic and ecological aspects of sustainable development

LO 2. Select examples of quality management of sustainable development

LO 3. Integrate indicators of sustainable development into the creation of a research instrument

LO 4. Determine the interrelationship between economic development and sustainability

LO 5. Develop the ability to understand the economic concept of social and economic well-being.

LO 6. Present the characteristics, position and importance of sustainable agriculture in relation to other systems in agriculture and argue an opinion on the importance of sustainable agriculture in preserving habitats and biological diversity

Course holder:

Zvjezdana Augustinović, Ph.D., professor of professional studies

Križevci, July 2024