

Study program: Bachelor academic studies: ECOLOGICAL ECONOMICS (BASEEC)		
Type and level of studies: Bachelor academic studies, I level		
Subject name: High Level Biological Production Systems	Subject code	6E2VVPS
Professor: dr Milena Milošević, assistant professor		
Subject status: Elective		
Number of ECTS: 5		
Condition: none		
Subject goal Introducing students to historically most significant human activity, which has formed the largest part of the cultural landscape in which man lives today. At various examples from the history of agriculture and modern forms of so-called sustainable agriculture could be explained how the man survived for centuries using natural resources for food production and the way he had an impact on the living world. There will be studied the ways in which agriculture in the future could be adapted to today's need for nature conservation including its high-value items made under the impact of farming, as well as other human activities based on sustainable management and use of wildlife. The course is designed to familiarize students with scientific and technical basis in this field as well as social and economic factors associated with the main agro-ecological issues and problems.		
Subject outcome Students will gain an understanding of the mutual relationship between man and the environment that surrounds him through sustainable systems of food security as a basis of its existence. With the acquired knowledge they will be able to identify the resources available to them and choose the appropriate farm systems and other production systems in rural areas, which will enable them to preserve and even improve the environment. They will understand the ways of functioning of traditional farm system and their character and their elements in the creation of the modern farm system and development planning in accordance with the general social need to preserve biodiversity, landscape diversity and quality of life, and the diversity and quality of human activities, products and culture. Students will be able to look at the actual scientific facts about the positive and the multifunctional role of agriculture, as well as opportunities of agricultural and gathering activities in modern environment.		
Subject content <i>Theoretical classes</i> Agriculture and the Environment. Basics of agroecology. The history of development of agriculture and animal husbandry and its impact on landscape diversity. Multifunctional agriculture. HN VF (High Nature Value Farming-farming / agriculture HNV). Traditional gathering economy in a rural atmosphere. Para-agricultural (beekeeping, fishing, hunting, mushroom and so on.). Pastoral systems and traditions of nomadic animal husbandry. Agro-forestry systems. Biodynamic agriculture. Organic farming. Permaculture. Extensive production systems and low investment. Indigenous animal breeds, types and varieties of cultivated plants and their role in shaping the landscape. Ethnobotany. The value chains of traditional products and their value for biodiversity conservation. The role of small farms and rural households in the preservation of biodiversity. Prospects for the development of agriculture and complementary activities in the areas of importance for nature conservation. Agriculture and climate change. <i>Practical classes</i> Getting to know the examples of HN VF systems and traditional value chains in farmer's practice in Serbia. Introduction to paragricultural activities and gathering economics, traditional processing, as well as the entire chains for adding value to natural resources of high value biological production system, as a way of preservation of the landscape and species diversity and environmental protection.		
Literature 1. Djordjević-Milošević S., Milovanović J., Djordjević S., Milošević S.. (2016) Biološki visokovredni proizvodni sistemi, Autorizovana skripta, Fakultet za primenjenu ekologiju „Futura“, Beograd 2. Keenleyside C., Đorđević-Milošević S., Hart K., Ivanov S., Redman M., Vidojević D. (Cooper T, Pezold T. (eds.) (2011): Razvoj nacionalnog agro-ekološkog programa za Srbiju, IUCN, https://portals.iucn.org/library/node/9853 3. Đorđević-Milošević S., Milovanović J. (2013): Održivi turizam u funkciji ruralnog razvoja: mala poljoprivredna gazdinstva i ruralni turizam u Srbiji, Fakultet za primenjenu ekologiju Futura,		

Agroznanje Vršac; FAO - Food and Agriculture Organisation of the United Nations

<http://www.togm.org.rs/dokumenta/knjiga.pdf>

4. Lazić B i saradnici(2008): Organska poljoprivreda, Institut za ratarstvo i povrtarstvo, Novi Sad
5. Kojić M., Mrfat-Vukelić S., Dajić Z., Đorđević-Milošević Suzana (2004):Livade i pašnjaci Srbije, i, Pregled i vrednovanje dosadašnjih fitocenoloških istraživanja I pravci daljih aktivnosti, Institut za poljoprivredna istraživanja «Srbija», monografija 1-92 str.
6. Holcer S.. (): Permakultura, http://www.mediafire.com/download/cicabbyafwda4j8/permakultura_sep_holcer.rar
7. LyngsoFogedH., Đorđević-Milošević S. (2006): Najbolje poljoprivredne prakse – o čemu se radi I kako se mogu primeniti, brošura, UNDP/GEFDRP – CarlBro, Denmark
8. Stojanović S., Đorđević-Milošević Suzana (2003):Autohtone rase domaćih životinja, Beograd, Savezni sekretarijat za rad, zdravstvo I socijalno staranje, sector za životnu sredinu str.1-250
1. Marzin O Djordjević-Milošević S., Ivanov S. (2007): Smernice za razvoj održive poljoprivrede na području Stare planine: Republika Srbija, knjiga, Beograd : Regionalni centar za životnu sredinu za Centralnu i Istočnu Evropu, Kancelarija u Srbiji, Vizartis, Beograd
9. Bogdanov N., Đorđević-Milošević S. (2005): Multifunctional Agriculture –Conceptand Institutional Frame, Multifunctional Agriculture and Rural Development, IEP, Belgrade, pp. 14-23, ISBN 86-82121-30-Grupa autora (uklj.

Đorđević-Milošević S., Eds- Oppermann R., Beaufoy G. Jones G (2012).: High nature value farming in Europe, EFNCP, <http://www.efncp.org/publications/books/>

Number of active teaching classes

Other classes

Lectures:2(30)

Practices: 1(15)

Other class forms:

Study research paper:

Teaching methods

Lectures, audiovisual practices, interactive workshops, discussions during lectures, individual practical work. Individual practical work in groups: case studies of value chains of traditional products based on HNVP system in protected areas (educational bases of the Faculty in Zasavica and Stara Planina).

Knowledge evaluation (maximum number of points is 100)

Pre-exam obligations	points	Final exam	points
Activity during classes	10	Written exam	30
Practical classes	20	Oral exam	20
Colloquium	20		