



Organic agriculture (226349)

Course coordinator

[Assoc. Prof. Darija Bilandžija, PhD](#)

Course description

Introduction to elementary concepts of plant and animal breeding based on organic principles. Organic agriculture as an opportunity to mitigate climate change and biodiversity conservation. Organic agriculture and the environment. Problems, advantages, disadvantages, conditions and limitations of various Croatian regions for the development of this form of agriculture.

ECTS: **6.00**

Grading

E-learning: **L1**

Sufficient (2):

Good (3):

Very good (4):

Excellent (5):

Teaching hours: 60

Lectures: 40

Seminar: 12

Field exercises: 8

Lecturer

- [Prof. Ivica Kisić, PhD](#)
- [Assoc. Prof. Darija Bilandžija, PhD](#)

Associate teacher for exercises

- [Prof. Ivica Kisić, PhD](#)

Associate teacher for seminars

- [Assoc. Prof. Darija Bilandžija, PhD](#)

Type of course

- Graduate studies / [Environment, agriculture and resource management](#) (Elective course, 4 semester, 2 year)

General competencies

- understand the concept of organic farming
- the specificity of this form of agriculture in crop production and livestock farming and permaculture
- the forms of organic agriculture
- the problems, advantages, disadvantages, conditions and limitations of the various regions of Croatia for the development of this form of agriculture
- the adaptation and mitigation of climate change by applying organic agriculture
- on organic farming and alternative forms of tourism?

Types of instruction

- Lectures
- Field work
- Seminars

Learning outcomes

Learning outcome	Evaluation methods
Environmental consequences of agriculture with high agrochemical input	Oral exam
Ecological (organic, biological) agriculture as a response to mitigate the negative consequences for the environment	Oral exam
The role of organic agriculture in mitigating climate change	Oral exam
The role of organic agriculture in preserving biodiversity	Oral exam
Organic agriculture and low input agriculture	Oral exam
Forms of organic agriculture: Biodynamic agriculture, Biological, Permaculture	Oral exam
The legal framework of the organic agriculture (EC 834/2007; EEC 2092/91, EC889/2008, EC 1235/2008)	Oral exam

Methods of grading

Evaluation elements	Maximum points or Share in evaluation	Grade rating scale	Grade	Direct teaching hours	Total number of average student workload	ECTS
Seminar papers	25 %	60-70 % 71-80 % 81-90 % 91-100 %	Sufficient (2) Good (3) Very good (4) Excellent (5)	4	1	2
Oral final exam	75 %	60-70 % 71-80 % 81-90 % 91-100 %	Sufficient (2) Good (3) Very good (4) Excellent (5)	6	1	4
Total	100 %			10	2	6

Oral final exam	The students will be asked to explain, critically appraise, and interpret correctly relevant teaching materials	The end of the course	
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Obligatory literature

1. Kisić I. (2014). Uvod u ekološku poljoprivredu. p. 340, Agronomski fakultet Sveučilišta u Zagrebu, Zagreb.
2. Hansen, A.L., (2010). The Organic farming manual – A Comprehensive Guide to Starting and Running a Certified Organic Farm, p. 436. Storey Publishing.
3. Lichfouse E. (2010). Genetic Engineering, Biofertilisation, Soil Quality and Organic Farming. p. 414, Springer.
4. Marshall Bradley F., Ellis B.W., Phillips E. (2009). Rodales Ultimate Encyclopedia of Organic Gardening, p. 707. Rodale Press.
5. Kristiansen P., Taji A., Reganold J. (2006): Organic Agriculture - A Global Perspective, p. 449. CABI Publishing.
6. Myers A. (2005). Organic Futures – The case for Organic Farming., p. 256 Cornwall, UK.
7. Lampkin N. (1990). Organic Farming, p. 714. Farming Press, UK.

Recommended literature

1. Hamilton N. (2007). Grow organic - Fruit and vegetables from your garden, p. 336. New Holland Publishers, UK.
2. Masson, P. (2007). A Biodynamic manual – Practical instructions for farmers and gardeners, p. 199. Floris Books.
3. McLeod J. (2007). Botanical Pocket – Organic Gardening. The A-Z of healthy gardening, p. 608. Tandem Verlag GmbH.
4. Davies G., Lennartsson M. (2005). Organic vegetable Production – A complete guide, p. 350. The Crowood Press.
5. Grewell, J.B., Danly, L.L.M., Landry, C.J. (2003): Ecological Agrarian: Agricultures First Evolution in 10 000 Years, p. 220. Purdue University Press.
6. Robert S. (1999). Organic farming: methods and markets: an introduction to ecological agriculture.

Similar course at related universities

- Organic Agriculture, BOKU
- Osnove ekološke biljne proizvodnje, Sveučilište J.J. Strossmayera u Osijeku
- Organic farming, Sveučilište u Ljubljani
- Osnove ekološkega kmetijstva, Sveučilište u Mariboru