Sveučilište u Zagrebu Agronomski fakultet
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Production and processing of edible and medicinal mushrooms (296580)

Nositelj predmeta

izv. prof. dr. sc. Ivan Širić

Opis predmeta

Acquisition of basic theoretical and practical knowledge about the technology of mushroom production, the qualities of mushrooms and the methods of processing and quality control of mushroom products.

ECTS: **6.00**

E-učenje: **R3**

Sati nastave: 60
Predavanja: 40
Laboratorijske vježbe: 6
Seminar: 6
Terenske vježbe: 8

Izvođač predavanja

- izv. prof. dr. sc. Ivan Širić
- izv. prof. dr. sc. Sanja Radman
- izv. prof. dr. sc. Jana Šic Žlabur

Izvođač vježbi

- izv. prof. dr. sc. Sanja Radman
- izv. prof. dr. sc. Jana Šic Žlabur
- izv. prof. dr. sc. Ivan Širić

Izvođač seminara

- izv. prof. dr. sc. Ivan Širić

Ocjenjivanje

Dovoljan (2): 60%
Dobar (3): 70%
Vrlo dobar (4): 80%
Izvrstan (5): 90%

Uvjeti za dobivanje potpisa

Monitoring of regular class attendance, good grade on seminar essay and preliminary exam, successful performance on oral exam.

Opis

During the class students will be assessed through two preliminary tests, and final examination will be oral exam.

Vrsta predmeta

- Graduate studies / MS Courses taught in English (Izborni predmet, 1. semestar, 1. godina)

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Opće kompetencije

After successfully passing the course, students will be able to:
- state the economic importance of mushroom production in the world and in Croatia,
- name the most important characteristics of edible and medicinal mushrooms,
- describe the most important species of mushrooms for production and processing,
- describe technological processes in mushroom production and processing,
- list some products made from mushrooms,
- demonstrate the basic methods of traceability and quality control of products,
- be able to participate in teamwork and give presentations in seminars.

Oblici nastave

- Lectures
- Seminars
- Exercises

Tjedni plan nastave

1. The economic importance of mushrooms production and processing - In introduction part, students will learn about the economic importance of the equine breeding, with special emphasis on mushrooms production as food products with high nutritional and medicinal value.
2. Mushrooms species for production and processing - Learn about some mushrooms species suitable for production and processing.
3. Selected chapters of anatomical and physiological characteristics of mushrooms, composting, culture and mycelium spawn - Students will get knowledge about anatomical and physiological characteristics of mushrooms. They will get knowledge about compost production, culture and mycelium spawn production.
4. Technological procedures in edible mushrooms production - Students will be familiar with the technologies of production in (cultivation methods, technological procedures, space for growing, harvesting mushrooms). The impact of mushrooms production on the eco system will be mentioned.
5. Technological procedures in medicinal mushrooms production - Students will be familiar with the organization of the technological procedures in medicinal mushrooms production (cultivation methods, technological procedures, space for growing, harvesting mushrooms).
6. Edible mushrooms products - Edible mushrooms products from the aspect of food industry and pharmaceutical industry (nutritive value of the product).
7. Medicinal mushrooms products - Medicinal mushrooms products from the aspects of pharmaceutical industry.
8. Traceability and product quality control - Basic methods of determining the nutritional value of the food and product safety.

Obvezna literatura

1. Lectures and PowerPoint presentations (Merlin system of e-learning)

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Preporučena literatura

1. Chuna Zied, D., Padro-Gimenez, A., (2017): Edible and Medicinal Mushrooms: Technology and Applications. John Wiley & Sons Ltd, The Atrium, Southern Gate, Chichester, West Sussex, UK
2. Zjalić, S., Reverberi, M., Ricelli, A., Fabbri, A., Fanelli, C. (2008) Medicinal Mushrooms. Science Publishers, Str. 299-339.
3. Stamets, P. (2000). Grownig Gourmet and Medicinal Mushrooms. Third Edition. Crow Publishing Group, New York.
4. Kavanagh, K. (2005). Fungi bilogy and applications. John Wiley & Sons Ltd, The Atrium, Southern Gate, Chichester.

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