Sveučilište u Zagrebu Agronomski fakultet
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Pig breeding (296624)

Nositelj kolegija

prof. dr. sc. Zoran Luković

Opis kolegija

Main objective of the course is to introduce students to the basics of pig breeding. In this sense, students will study the pig breeds, basic selection and reproduction, technological processes in the pig production, as well as different pig production systems.

ECTS: **6.00**

Engleski jezik: **R2**

E-učenje: **R2**

Sati nastave: 60
Predavanja: 32
Vježbe u praktikumu: 16
Seminar: 4
Terenske vježbe: 8

Izvođač predavanja

- izv. prof. dr. sc. Dubravko Škorput

Ocjenjivanje

Dovoljan (2): 60-70%
Dobar (3): 71-80%
Vrlo dobar (4): 81-90%
Izvrstan (5): 91-100%

Vrsta kolegija

- Undergraduate studies / BS Courses taught in English (Izborni kolegij, 2. semestar, 1. godina)

Opće kompetencije

General competences are related to manage the pig production in different production systems.

Oblici nastave

- Lectures
- Auditory Exercises
- Consultations
- Practicum
- Field work
- Seminars

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Ishodi učenja i način provjere

Ishod učenja	Način provjere
- to explain economical and biological importance of pig production	discussion during lessons, written exam, oral exam
- to recognize and describe the most important pig breeds of the world and Croatia	discussion during lessons, written exam, oral exam
- to recognize trais in pig selection and methods of their improvement	discussion during lessons, written exam, oral exam
- to define parameters of pig reproduction and support them by an example	discussion during lessons, written exam, oral exam
- do distinguish pig production systems	discussion during lessons, written exam, oral exam
- to compare nutritional requirements of different pig categories	discussion during lessons, written exam, oral exam
- to identify tehcnological, healthy and economic demands in pig production	discussion during lessons, written exam, oral exam
-to analyse production results and suggest improvements in production system	discussion during lessons, written exam, oral exam

Način rada

Obveze nastavnika

- teaching according to the curriculum
-organising field work
- monitoring the work of students
- assessment and evaluation of students
- work during the semester trough colloquium and final exam
- quality monitoring to ensure output of competence
- allows contact with students

Obveze studenta

Students are required to regularly attend the classes and the attendance is recorded by the professor. For the realization of the professor's signature, students are required to attend at least 80% of lectures and 80% exercises and seminars during the whole semester. If the student is absent from school more than allowed, without reasonable cause, professor's signature will be denied and the student is required to re-enrol the subject in the next academic year. Students are required to attend training courses and seminars, where they are expected to actively engage and participate in the discussion. During the exercises the student is required to pass the colloquium. For acquiring the final evaluation, students must pass 3 colloquiums during the semester. Students who do not pass the course by the end of the semester are required to take the final exam during the regular examination periods.

Polaganje ispita

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Elementi praćenja	Maksimalno bodova ili udio u ocjeni	Bodovna skala ocjena	Ocjena	Broj sati izravne nastave	Ukupni broj sati rada prosječnog studenta	ECTS bodovi
Attending lessons				32	32	1
Seminars	10			4	8	0,5
Attending auditory and practical exercises				16	32	1
Participation in field work	Subjective teacher's evaluation			8	8	0,5
Written test I	20	<60% 60-70% 71-80% 81-90% 91-100%	Nedovoljan (1) Dovoljan (2) Dobar (3) Vrlo dobar (4) Izvrstan (5)	0	20	0,5
Written test II	30	<60% 60-70% 71-80% 81-90% 91-100%	Nedovoljan (1) Dovoljan (2) Dobar (3) Vrlo dobar (4) Izvrstan (5)	0	20	1
Written test III	20	<60% 60-70% 71-80% 81-90% 91-100%	Nedovoljan (1) Dovoljan (2) Dobar (3) Vrlo dobar (4) Izvrstan (5)	0	20	0,5
Final exam	20	<60% 60-70% 71-80% 81-90% 91-100%	Nedovoljan (1) Dovoljan (2) Dobar (3) Vrlo dobar (4) Izvrstan (5)	0	40	1
Total	100			30	180	6

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Tjedni plan nastave

1. Basic information about the module (content, literature, way of examination) Pig production in Croatia and in the world
2. The origin of domestic pig, morphological and physiological changes in the domestication of pigs Pig breeds review (local breeds, modern breeds, hybrid lines)
3. The inheritance of quantitative and qualitative traits of pigs Generation interval, genetic improvement
4. Breeding methods, crossbreeding Estimation of breeding values of pigs, pig marking and recording of production indicators
5. Performance test, progeny test, selection methods Estimation of genetic parameters, pig breeding programmes
6. The reproductive cycle in pigs, oestrus, boar use Production indicators in pig reproduction
7. Mating and fertilization, detection of oestrus Artificial insemination of pigs, pregnancy detection
8. Growth of pigs, sows farrowing, procedures with piglets after birth The causes of embryonic and fetal losses
9. Milk yield of sows, weaning methods, procedures with gilts and boars The calculation of basic production indicators
10. Pig feeding pigs by categories Quality of carcasses and pork
11. Pig production systems (indoor, outdoor, combined) The design of the floor in pig buildings, the microclimate in pig buildings
12. Field trip on family farms with indoor pig production systems Field trip on family farms with outdoor pig production systems
13. Using pigs for other purposes (medical research, pets), biotechnology in pig production Behaviour of pigs, assessment of the welfare of pigs
14. Presentation of the seminars, work with mentor Presentation of the seminars, work with mentor
15. Colloquium, seminars Debate, oral examination

Obvezna literatura

1. Whitemore, C.T. The sience and practice of pig production, Blackwell science, 1998

Preporučena literatura

1. Christiansen, J.P. The basics of Pig production, Danish agricultural advisory center, 2005

Sličan kolegij na srodnim sveučilištima

- Prašičereja, Biotehniška fakulteta, Oddelek za zootehniko
- Biološki i zootehnički principi u svinjogojstvu, Poljoprivredni fakultet Osijek
- Suinicultura, University of Padova
- Pig breeding, University of Kaposvar

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