

Ethology (III.rd year, VI.th Semester)

No. of transferable credits: 5

Discipline status:

Mandatory

Seminar lecturer

Dr. Marius DOLIŞ

Discipline Objectives (course & applications)

Ethology in accordance with the analytical program aims to: know the natural lifestyle of livestock species significant to animal science & husbandry, the species adaptability towards raising & exploitation conditions. Also it contributes in assuring theoretical & practical bases in training good specialists in the Biology field, in order to assure a balance between livestock animals & wild animals in accordance with the new regulations of raising and exploiting livestock in the EU.

Course Content (analytical program)

Course (Chapters/subchapters)
Introduction. Short history of Ethology. Ethology & its importance. Ethology's methodology. Objectivity.
Study methods used by Ethology. Observation & description. Ethogram. Causal analysis. Study behavior ontogenesis. The study of survival behavior. The study of phylogenesis behavior.
Types of behavior & classification. The causative criteria classification. The functional criteria classification. The historical criteria classification. The informational criteria classification. The ethological criteria classification.
Behavior causality. External causality. External environment, efficient environment, stimuli. Stimuli classification (potential, effective, significant, key). Innate trigger mechanism. Acquired trigger mechanism. Internal causality or spontaneity behavior. Indirect evidence of spontaneity behavior. Direct evidence of spontaneity behavior.
Motivational systems. (feeding, water ingestion, defecation, urination, sexual, sleep).
Behavior organizing. Instinct. Instinct & the instinctive act. Exploitation mechanisms of short term information. The analysis of orientation based on control mechanisms.
Behavioral genetic programs. Deprivation experience. Change & adaptive change. Learning. Memory. Learning & its forms.
Behavioral types. Feeding behavior. Selection & exploitation of the environment behavior. Communication. Reproductive behavior. Aggressive behavior. The nature & types of animal aggression.

Practical work
Behavioral peculiarities in bovines. Behavioral studies & bovine ethogram.
Behavioral peculiarities in horses. Behavioral studies & horse ethogram.
Behavioral peculiarities in pigs. Behavioral studies & pig ethogram.
Behavioral peculiarities in sheep. Behavioral studies & sheep ethogram.
Behavioral peculiarities in goats. Behavioral studies & goat ethogram.
Behavioral peculiarities in birds. Behavioral studies & bird ethogram.
Behavioral peculiarities in cats. Behavioral studies & cat ethogram.
Behavioral peculiarities in dogs. Behavioral studies & dog ethogram.
Behavioral peculiarities in rabbits. Behavioral studies & rabbit ethogram.
Behavioral peculiarities in fur animals. Behavioral studies & fur animal ethogram.

Bibliography

Cenzbraun M.N. (1978) – Comportamentul animalelor. Ed. Didactică și pedagogică, București.

Cociu M. (2000) – Etologie – Comportamentul animalelor, Ed. All, București.

Cociu M., Cociu Maria (1982) – Tainele comportamentului animal, Ed. Albatros București.

Coman, Podoleanu L., Gașpar C. (2003) – Etologie și etiopatologie, Ed. Tehnopress, Iași.

Gavrilaș Angela, Doliș M. (2006) – Ecologie și protecția mediului. Ed. Alfa, Iași.

Kolb E. (1981) – Despre viața și comportamentul animalelor domestice. Ed. Ceres, București.

Nicolae M., Florica D. (1983) – Ce este instinctul? Ed. Științifică și enciclopedică, București.

Opriș T. (1997) – Zoologia. Ed. Univers enciclopedic, București.

Sârbu Alina, Coman I. (2007) – Aprecierea bunăstării animalelor prin intermediul etologiei aplicate. Ed. Ass, Iași.

Final evaluation

Evaluation forms	Assessment methods	Percentage of final grade
Exam	Oral evaluation	60%
Activity appreciation during the semester	Oral evaluation during the semester, tests, lab colloquy.	40%

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