COURSE OUTLINE

(1) GENERAL

SCHOOL	ANIMAL BIOSCIENCES				
ACADEMIC UNIT	DEPARTMENT OF ANIMAL SCIENCE				
LEVEL OF STUDIES	Undergraduate [Required]				
COURSE CODE	495 SEMES		TER 9 th		
COURSE TITLE	ECONOMICS IN ANIMAL PRODUCTION				
INDEPENDENT TEACHING ACTIVITIES if credits are awarded for separate components of the course, e.g. lectures, laboratory exercises, etc. If the credits are awarded for the whole of the course, give the weekly teaching hours and the total credits			WE	EKLY TEACHING HOURS	CREDITS (ECTS)
, ,	Lectures and practical exercises			4	4
		+			
Add rowe if nacessary. The organisate	Total Add rows if necessary. The organisation of teaching and the teaching			4	4
methods used are described in detail at (d).					
COURSE TYPE					
general background,					
special background, specialised general					
knowledge, skills development					
PREREQUISITE COURSES:	Rural Economics and Policy (3rd Semester)				
LANGUAGE OF INSTRUCTION	Greek				
and EXAMINATIONS:					
IS THE COURSE OFFERED TO	-				
ERASMUS STUDENTS:					
COURSE WEBSITE (URL):	https://mediasrv.aua.gr/eclass/courses/EZPY133/				

(2) LEARNING OUTCOMES

Learning outcomes

The course learning outcomes, specific knowledge, skills and competences of an appropriate level, which the students will acquire with the successful completion of the course are described.

Consult Appendix A

- Description of the level of learning outcomes for each qualifications cycle, according to the Qualifications Framework of the European Higher Education Area
- Descriptors for Levels 6, 7 & 8 of the European Qualifications Framework for Lifelong Learning and Appendix B
- Guidelines for writing Learning Outcomes

The purpose of the course, which follows a series of economics-focused courses taught in previous semesters (Political Economy, Agricultural Economics and Policy), is to introduce students of the Department of Animal Science and Aquaculture to the concepts of recording and evaluating farm operations, as well as decision-making in livestock enterprises.

The course content aims to familiarize students with methods for calculating production costs and economic outcomes of livestock farms, considering the specific characteristics of the production process in the livestock sector. Furthermore, the course introduces methods for the techno-economic evaluation of farm operations in relation to both the external and internal environment of production units. Finally, the course aims to introduce and familiarize students with decision-making methods regarding the establishment or operation of livestock enterprises, using examples and appropriate software tools.

Upon successful completion of the course, the student will be able to:

- Understand the concept of techno-economic recording of livestock farm operations.
- Have knowledge of methods for calculating production costs and economic outcomes in animal production.
- Understand the concept of evaluating the techno-economic performance of livestock farms and be familiar with the methods and tools for its implementation.
- Understand the decision-making process in livestock enterprises and use the corresponding methods and tools.

General Competences

Taking into consideration the general competences that the degree-holder must acquire (as these appear in the Diploma Supplement and appear below), at which of the following does the course aim?

Search for, analysis and synthesis of data and information, with the use of the necessary technology Respect for difference and multiculturalism Adapting to new situations Respect for the natural environment

Decision-making Showing social, professional and ethical responsibility and sensitivity to gender

Working independently issues

Team work Criticism and self-criticism

Working in an international environment Production of free, creative and inductive thinking

Working in an interdisciplinary environment

Production of new research ideas Others...

- Search, analysis, and synthesis of data and information, using the necessary technologies
- · Adaptation to new situations
- Decision-making

(3) SYLLABUS

- i. Factors of agricultural production (land, labor, capital), classification of capital, farm assets, and their valuation.
- ii. Expenses and production costs (definition, basic production expenses, categories and classification of production expenses, types of costs).
- iii. Calculation of production expenses for intermediate and final branches of the agricultural enterprise. Applications in livestock farms that produce their own animal feed.
- iv. Calculation of production costs for joint products of livestock activity. Applications in livestock farms with combined production of milk, meat, wool, and manure.
- v. Economic results of mixed crop-livestock activity.
- vi. Farm operation analysis (group analysis). Applications in livestock farms.
- vii. Isolated analysis of production factors. Analysis of farm machinery utilization, cost of use relative to the optimal limit. Efficiency limits between two or more machines. Analysis of labor utilization (calculation of required vs. employed labor). Applications in livestock farm management problems.
- viii. Decision-making using Agricultural Budgeting methods (partial budget, break-even budget, parametric budget, cash-flow budget, total budget). Applications in livestock farms.
- ix. Decision-making using Linear Programming methods (graphical method, Simplex algorithm, Big M method, dual problem, sensitivity analysis). Applications in livestock farms.

(4) TEACHING and LEARNING METHODS - EVALUATION

TEACHING METHOD	In the classroom			
Face-to-face, Distance learning, etc.				
USE OF INFORMATION AND	Use of specialized software for the calculation of production costs and economic			
COMMUNICATIONS	outcomes, as well as for the application of partial budgeting and linear programming.			
TECHNOLOGY				
Use of ICT in teaching, laboratory education,				
communication with students				
TEACHING METHODS	Activity	Semester		
The manner and methods of teaching are	Activity	workload		
described in detail.	Lectures	52		

Lectures,	seminars,	laboratory	practice,		
fieldwork, s	study and a	nalysis of bib	liography,		
tutorials, placements, clinical practice, art					
workshop, interactive teaching, educational					
visits, pr	oject, ess	say writing,	artistic		
creativity, e	etc.				

Independent study	48
Course total (25 h of workload per ECTS)	100

The student's study hours for each learning activity are given as well as the hours of non-directed study according to the principles of the ECTS

STUDENT PERFORMANCE EVALUATION

Description of the evaluation procedure

Language of evaluation, methods of evaluation, summative or conclusive, multiple choice questionnaires, short-answer questions, open-ended questions, problem solving, written work, essay/report, oral examination, public presentation, laboratory work, clinical examination of patient, art interpretation, other

Specifically-defined evaluation criteria are given, and if and where they are accessible to students.

- I. The language of assessment is Greek.
- II. The grade for the theoretical component is based on the final written examination.

(5) ATTACHED BIBLIOGRAPHY

- Suggested Bibliography:
- 1. Spathis, P., Tsimpoukas, K., *Business Economics: Applications in Food and Agricultural Enterprises*, Ellinoekdotiki, 2010.
- 2. Papanagiotou, E., *Economics of Animal Production*, Graphema Publications, 2008.
- Relevant Scientific Journals:

Agricultural Systems, ISSN: 0308-521X Small Ruminant Research, ISSN: 0921-4488

Journal of Agricultural Economics, Print ISSN: 0021-857X, Online ISSN: 1477-9552