COURSE LAYOUT

1. GENERAL					
SCHOOL	School of Animal Sciences				
DEPARTMENT	Animal Science				
STUDY LEVEL	Undergraduate				
COURSE CODE	161	SEMESTER 5 th			
DEPARTMENT	Department of Animal Science				
COURSE TITLE	Quality and safety of animal food products				
INDEPENDENT TEACHING ACTIVITIES			WEEKLY TEACHING HOURS	ECTS	
Theory, Laboratory Practicals			4	4	
COURSE TYPE			Scientific a	rea	
(Foundation course, General knowledge, Scientific area,					
Developing skills)	[
PREREQUISITES					
LANGUAGE	Greek				
IS THE COURSE OFFERED for	Yes (in English)				
ERASMUS STUDENTS?					
COURSE WEB PAGE	https://mediasrv.aua.gr/eclass/courses/EZPY188/				
TEACHING STAFF	Athanasios Gelasakis, Nikolaos Chorianopoulos, Panagiotis Simitzis, Paschalitsa Trifinopoulou,				

2. LEARNING OUTCOMES

Learning Outcomes
 Understanding of physiological and management factors, as well as chemical, nutritional, technological, organoleptic, biological, microbiological and hygiene parameters which determine and describe the intrinsic quality and safety of animal derived food products with emphasis given in meat, milk and dairy products, eggs, fisheries and honey. Understanding the contribution of livestock production to the availability of products, in the food value chains, which are compatible with the current and emerging public perception of the quality and safety of animal products. Understanding the basic principles of 'One Health', the significance of zoonotic and foodborne diseases, the transmission dynamics, prevention and control of food-
borne pathogens across animal-derived food value chains
General Competences
Adaptation to the current situation
Decision making
Autonomous work
Team work
Development of innovative ideas
Respect and protection of the environment
3. COURSE CONTENT
 Description and analysis of intrinsic quality and safety traits of meat, milk and dairy

• Description and analysis of intrinsic quality and safety traits of meat, milk and dairy products, eggs, fisheries and honey.

• Legislative framework which determines the production, processing and safety prerequisites of animal-derived food products.

• Challenges and trends regarding the production of safe and of superior quality animal food products.

• Description of physiological (breed, age, sex, productive stage) and management factors (standard farming practices, farming systems, nutrition, as well as housing, transportation and slaughtering conditions) and analysis of their effects on the quality and safety of animal food products across the farm to fork value chains.

• The significance of farming conditions, health, welfare and euthanasia status for the quality, hygiene and safety of animal food products.

• Methods for the assessment of intrinsic quality and safety of animal food products with emphasis on their nutritional value, organoleptic traits and hygiene.

- Food-borne diseases and their significance for public health.
- The use of chemotherapeutic drugs in livestock and their correlation with food safety. Antibiotic resistance. Traceability.
- Genetics and epigenetics on the safety and quality of animal food products.
- Food technology and quality assurance in meat, milk, eggs, fisheries, honey and products thereof.

4. TEACHING and LEARNING METHODS - Evaluation

TEACHING METHOD	Lecturing – Classroom discussion				
USE OF INFORMATICS and COMMUNICATION TECHNOLOGIES	Internet (infographics, videos), communication via e-mail, exploitation of electronic platforms to support teaching (e.g. open e-class, e-student, Microsoft teams)				
TEACHING ORGANISATION	Activities	Workload per semester			
(Lectures, individual or group	Individual study	70			
assignments, field trips, individual	Lectures uploaded at open	30			
study et.c.)	e-class, with self-				
	assessment quiz				
	Total contact hours and training	100			
STUDENTS EVALUATION	Language: Greek for Greek students and English for				
	Erasmus students.				
	Written tests using, completion type, multiple choice and alternative response (True/False) questions				
	For Erasmus students oral tests and evaluation of				
	presentations on relevant topics.				

5. BIBLIOGRAPHY

Suggested scientific journals:

- Nature Sustainability
- Trends in Food Science and Technology
- Comprehensive Reviews in Food Science and Food Safety
- Global Food Security
- Applied and Environmental Microbiology
- Journal of Dairy Science
- Food Control
- Meat Science
- International Journal of Food Microbiology
- Food Microbiology
- Food Quality and Safety