

COURSE LAYOUT

1. GENERAL

SCHOOL	Animal Biosciences		
DEPARTMENT	Animal Science		
STUDY LEVEL	<i>Undergraduate</i>		
COURSE CODE	0167	SEMESTER	9 th
COURSE TITLE	Nutrition of Aquatic Organisms		
INDEPENDENT TEACHING ACTIVITIES		WEEKLY TEACHING HOURS	ECTS
Theory and laboratory practice		3	3
COURSE TYPE (Foundation course, General knowledge, Scientific area, Developing skills)	Scientific area		
PREREQUISITES			
LANGUAGE	Greek		
IS THE COURSE OFFERED for ERASMUS STUDENTS?	No		
COURSE WEB PAGE			

2. LEARNING OUTCOMES

Learning Outcomes
<p>Upon the completion of the course, the students will have the ability to:</p> <ul style="list-style-type: none"> • Understand the special needs of fish and other aquatic organisms compared to other domestic animals, that emerge from their poikilotherm nature, habitat and feeding type • Understand the qualitative, quantitative, economic and environmental importance of fish nutrition in aquaculture • Assess the nutritional requirements and formulate fish feeds and feeds from other aquatic organisms
General Competences
<ul style="list-style-type: none"> • Search, analysis and synthesis of data and information, utilizing modern technologies • Adaptation in various conditions • Decision-making • Independent personality • Teamwork skills • Project planning and management • Consideration for the natural environment • Develop judgement and self-criticism • Promotion of free, creatinal and inductive thought

3. COURSE CONTENT

- Energy and nutrient balance
- Nutritional requirements of fish (energy, proteins-amino acids, fats-fatty acids, vitamins, inorganic elements)
- Fish nutritional physiology
- Nutritional diseases of fish
- Formulation and production of fish feed
- Feeding practices in aquaculture (feeding levels, frequency and distribution, etc)
- Laboratory practical on feed formulation for fish and other aquatic organisms
- Laboratory practical on estimating fish feed digestibility

4. TEACHING and LEARNING METHODS - Evaluation

TEACHING METHOD	Physical	
USE OF INFORMATICS and COMMUNICATION TECHNOLOGIES	<ul style="list-style-type: none"> • PowerPoint slideshows and video projections during teaching • Teaching activity support through e-class platform • Contact with the students via e-mail 	
TEACHING ORGANISATION (Lectures, individual or group assignments, field trips, individual study et.c.)	Activities	Workload per semester
	Lectures	50
	Laboratory practicals focusing on methodology implementation and case studies in small student groups	25
	Team projects on a case study	
	Field trip/ Personal assignment	
	Total contact hours and training	75
STUDENTS EVALUATION	Written exams Task assignments	

5. BIBLIOGRAPHY

- Proposed bibliography
1. FISH NUTRITION. J.E. HALVER, R.H. HARDY, Pedio Publications., Eudoxus code: 50658708 (IN GREEK)
 2. FISH NUTRITION. PAPOUSOGLOU SE, Stamoulis Publications, Eudoxus code: 22695 (IN GREEK)
- Proposed scientific journals
Aquaculture Nutrition, Aquaculture, Animal Feed Science and Technology