

## COURSE LAYOUT

### 1. GENERAL

<b>SCHOOL</b>	Animal Biosciences		
<b>DEPARTMENT</b>	Animal Science		
<b>STUDY LEVEL</b>	Undergraduate		
<b>COURSE CODE</b>	0036	<b>SEMESTER</b>	8 <sup>th</sup>
<b>COURSE TITLE</b>	Production of aquatic organisms		
<b>INDEPENDENT TEACHING ACTIVITIES</b>		<b>WEEKLY TEACHING HOURS</b>	<b>ECTS</b>
Theory and laboratory practice		6	6
<b>COURSE TYPE</b> (Foundation course, General knowledge, Scientific area, Developing skills)	Scientific area		
<b>PREREQUISITES</b>			
<b>LANGUAGE</b>	Greek		
<b>IS THE COURSE OFFERED for ERASMUS STUDENTS?</b>	NO		
<b>COURSE WEB PAGE</b>			

### 2. LEARNING OUTCOMES

<b>Learning Outcomes</b>
<p>Upon the completion of the course, the students will have the ability to:</p> <ul style="list-style-type: none"> <li>• Understand the whole production procedure of the most common aquaculture organisms (species/genus/family) in Greece and internationally</li> <li>• Handle the aquatic organisms in a way to promote welfare during the breeding period until harvest</li> <li>• Assess the physiological status of the aquatic organisms during the production period</li> <li>• Safeguard the quality of aquaculture products by applying procedures during production, slaughtering and processing</li> </ul>
<b>General Competences</b>
<ul style="list-style-type: none"> <li>• Search, analysis and synthesis of data and information, utilizing modern technologies</li> <li>• Adaptation in various conditions</li> <li>• Decision-making</li> <li>• Independent personality</li> <li>• Teamwork skills</li> <li>• Consideration for the natural environment</li> <li>• Develop judgement and self-criticism</li> <li>• Promotion of free, creational and inductive thought</li> </ul>

### 3. COURSE CONTENT

<ul style="list-style-type: none"> <li>• Hatcheries of aquatic organisms</li> <li>• Saltwater finfish breeding (gilthead seabream, European seabass)</li> </ul>
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- Emerging candidate finfish species (red porgy, common pandora, sharpnout seabream, tuna, meagre)
- Freshwater and brackish water finfish farming (carp, trout, salmon)
- Production of bivalve mollusks (oyster, mussel, scallop)
- Production of cephalopods (octopus, cuttlefish)
- Farming of gastropods (abalone)
- Farming of decapod crustaceans (lobster, shrimps, crayfish)
- Seaweed cultivation (brown algae – kelps, red algae)
- Laboratory practical on assessment of production levels in aquaculture
- Laboratory practical on handlings during production (anaesthesia, weighting, blood sampling, tagging, transportation of live fish)
- Laboratory practical on fish harvesting and slaughtering methods
- Laboratory practical on processing and packaging of aquaculture products
- Laboratory practical on quality assessment of aquaculture products

#### 4. TEACHING and LEARNING METHODS - Evaluation

<b>TEACHING METHOD</b>	Physical	
<b>USE OF INFORMATICS and COMMUNICATION TECHNOLOGIES</b>	<ul style="list-style-type: none"> <li>• PowerPoint slideshows and video projections during teaching</li> <li>• Teaching activity support through e-class platform</li> <li>• Contact with the students via e-mail</li> </ul>	
<b>TEACHING ORGANISATION</b> (Lectures, individual or group assignments, field trips, individual study et.c.)	<b>Activities</b>	<b>Workload per semester</b>
	Lectures	75
	Laboratory practicals focusing on methodology implementation and case studies in small student groups	75
	Team projects on case studies	
	Field trip/ Personal assignment	
	<b>Total contact hours and training</b>	<b>150</b>
<b>STUDENTS EVALUATION</b>	Written exams	

#### 5. BIBLIOGRAPHY

-Proposed bibliography

1. Plant cultivation and animal breeding in aquaculture. Klaoudatos S and Klaoudatos D, Propompos publications. Eudoxus code: 12475860 (IN GREEK)
2. Fish endocrinology. Papoutsoglou S.E. Stamoulis publications. Eudoxus code: 22769 (IN GREEK)

-Proposed scientific journals

Aquaculture, Aquacultural Engineering, Aquaculture International