Production of Aquatic Organisms [36]

COURSE OUTLINE

(1) GENERAL

SCHOOL	ANIMAL BIOSCIENCES				
ACADEMIC UNIT	DEPARTMENT OF ANIMAL SCIENCE				
LEVEL OF STUDIES	Undergraduate [Required]				
COURSE CODE	36 SEMESTER 8 th				
COURSE TITLE	PRODUCTION OF AQUATIC ORGANISMS				
INDEPENDENT TEACHING ACTIVITIES			WEEKLY TEACHING HOURS	CREDITS	
	Theory and laboratory practice		6	4	
		Total	6	4	
COURSE TYPE	Scientific area				
PREREQUISITE COURSES:					
LANGUAGE OF INSTRUCTION and EXAMINATIONS:	Greek				
IS THE COURSE OFFERED TO ERASMUS STUDENTS:	Yes				
COURSE WEBSITE (URL):	https://mediasrv.aua.gr/eclass/courses/EZPY169/				
	https://mediasrv.aua.gr/eclass/courses/EZPY168/				
TEACHING STAFF:	Nafsika Karakatsouli, Eleni Miliou, Konstantina Bitchava, Emmanouil				
	Malandrakis, Arkadios Dimitroglou				

(2) LEARNING OUTCOMES

Learning outcomes

Upon successful completion of the course, students will be able (according to Bloom) to:

- Describe the complete production procedures of the most common aquaculture organisms in Greece and internationally (Knowledge / Comprehension).
- Apply proper handling techniques to aquatic organisms to ensure their welfare throughout the breeding and production periods (Application / Comprehension).
- Assess and interpret the physiological status of aquatic organisms during production (Analysis / Evaluation).
- Implement procedures during production, slaughtering, and processing to safeguard the quality of aquaculture products (Application / Synthesis / Evaluation).

General Competences

- Search, analysis and synthesis of data and information, utilizing modern technologies
- Adaptation in various conditions
- Decision-making
- Independent personality
- Teamwork skills
- Consideration for the natural environment
- Develop judgement and self-criticism
- \bullet Promotion of free, creational and inductive thought

(3) SYLLABUS

- Hatcheries of aquatic organisms
- Saltwater finfish breeding (gilthead seabream, European seabass)
- Emerging candidate finfish species (red porgy, common pandora, sharpsnout 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

DELIVERY	Face to face			
USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY	 PowerPoint slideshows and video projections during teaching Teaching activity support through e-class platform Contact with the students via e-mail 			
TEACHING METHODS	Activity	Semester workload		
	Lectures	39		
	Laboratory practicals focusing on methodology	39		
	implementation and case studies in small student groups			
	Individual study	22		
	Course total (25 h of workload per ECTS)	100		
STUDENT PERFORMANCE EVALUATION	Written exams			

(5) ATTACHED 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