SCHOOL	NATURAL SCIENCES
ACADEMIC UNIT	BIOLOGY
LEVEL OF STUDIES	POSTGRADUATE

COURSE CODE	**GBIO_OKYA4**	**ΕΞΑΜΗΝΟ ΣΠΟΥΔΩΝ/ SEMESTER**	1st
COURSE TITLE	Fish Population Dynamics and Management of Marine Biological Resources		

INDEPENDENT TEACHING ACTIVITIES	**WEEKLY TEACHING HOURS**	**CREDITS**
Lectures, Laboratory Exercises	13	6

COURSE TYPE	1) Specialised general knowledge, 2) skills development.
PREREQUISITE COURSES	NO. Formally, there are no prerequisite courses. Nevertheless, a good knowledge of ecology and some knowledge of marine ecology, ichthyology and aquaculture is recommended.
LANGUAGE OF INSTRUCTION and EXAMINATIONS	Greek
IS THE COURSE OFFERED TO ERASMUS STUDENTS	NO
ΗΛΕΚΤΡΟΝΙΚΗ ΣΕΛΙΔΑ ΜΑΘΗΜΑΤΟΣ (URL)	

Learning outcomes

By the end of the course each student will be able: (1) to know the structure and the functioning of the system "fisheries" (fishing gears, technical characteristics, relevant administration structures and scientific bodies) with an emphasis on Mediterranean and Greek fisheries, (2) to set and to make reasonable scientific questions regarding fish stock dynamics and state hypotheses regarding the effects of human exploitation, (3) to understand the methods of sampling for fisheries data and to be able to design sampling strategies and prepare sampling protocols, (4) to analyze fisheries data as well as study and answer questions regarding fish stock dynamics and fisheries management, (5) to understand the concepts and the different approaches used in fish stock assessments, (6) to be familiar with the various types of fisheries management measures and how they may affect fish stocks and the entire system of fisheries and (7) to comprehend basic principles of fish ethology and their applications in aquaculture.

General Competences

At the end of the course each student will be able: (1) to design and manage projects (related with the study and management of fisheries), (2) to work independently and in a team, (3) to search for, analyse and synthesize data, metadata and information, with the use of the necessary technology and (4) to work in an interdisciplinary environment.

Teaching and Learning methods-Evaluation

DELIVERY	Face to Face
USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY	(1) Use of computers and special software during the course by the instructors and the students. (2) Support of educational procedure with use of the e-class electronic platform.

TEACHING METHODS	*Activity*	*Semester workload*
	Lectures and Laboratory exercises	39
	Home study	31
	Literature study	30
	Writing project	50
	Course total (25 hours per one ECT)	**150**

STUDENT PERFORMANCE EVALUATION	Elaboration & Presentation of Laboratory Exercises (at the semester's end) Grading scale: 1-10. Passing grade: 5 Grading: 3 correspond to ECTS grade F. Grade 4 corresponds to ECTS grade FX. Passing grades correspond to ECTS grades as follows: 5=E, 6=D, 7=C, 8=B, 9=A

Attached bibliography

- Pitcher T. J., Hart P. J. B. (1982). Fisheries Ecology. Chapman & Hall.
- Hilborn R., Walters C. J. (1992). Quantitative Fisheries Stock Assessment: Choice, Dynamics and Uncertainty. Chapman and Hall.
- Jennings S., Kaiser M. J., Reynolds J. D. (2001). Marine Fisheries Ecology. Blackwell Science.
- Vandermeer J. H., Goldberg D. E. (2003). Population Ecology: First Principles. Princeton University Press.
- Walters C. J., Martell S. J. D. (2004). Fisheries Ecology and Management. Princeton University Press.
- King M. (2007). Fisheries Biology, Assessment and Management. Blackwell Science.
- Belgrano A., Fowler C. W. (2011). Ecosystem-Based Management for Marine Fisheries. Cambridge University Press.
- Hurtingford, F., Jobling. M., and Kadri, S. (2012). Aquaculture and Behavior. Willey Blackwell.