Biodiversity assessment and monitoring of species and habitats

SCHOOL	NATURAL SCIENCES		
ACADEMIC UNIT	BIOLOGY		
LEVEL OF STUDIES	POSTGRADUATE		
COURSE CODE	**GBIO_OKYA2**	**SEMESTER**	1st
COURSE TITLE	**Biodiversity Assessment and Biomonitoring of Species and Habitats**		

INDEPENDENT TEACHING ACTIVITIES	**WEEKLY TEACHING HOURS**	**CREDITS**
Lectures, Laboratory Exercises	13	8

COURSE TYPE	1) Specialised general knowledge, 2) skills development
PREREQUISITE COURSES	NO. Formally, there are no prerequisite courses. Nevertheless, a basic knowledge of General Biology, Botany and Zoology, Mapping of species and habitats is recommended.
LANGUAGE OF INSTRUCTION and EXAMINATIONS	Greek
IS THE COURSE OFFERED TO ERASMUS STUDENTS	NO
URL	https://eclass.upatras.gr/courses/BIO334/

Learning outcomes

At the end of the course, the student will be able to: 1) understand the basic concepts of surveillance, monitoring of species and habitat types in the context of implementing the relevant European Union Directives, 2) have the knowledge of the methodologies for implementing monitoring plans for species and habitats in different types of ecosystems, 3) understand the methods of assessing the conservation status of species and habitat and collect data in the field based on standardized protocols for the assessment of pressures/threats and structures and functions regarding habitat types, as well as for the assessment of population parameters and pressures/threats for plant and animal species, 4) strengthen his/her efficiency to compile information in a coherent system/unit.

General Competences

At the end of the course, the student will have developed the following skills: 1) Ability to demonstrate knowledge and understanding of essential data, concepts and theories of monitoring and assessment of species' and habitats' conservation status, 2) Ability to apply this knowledge and understanding of the results of the assessment of conservation status and their link to management issues for the conservation of species and habitats within the targeted integrated nature conservation in protected areas 3) Ability to collaborate with others on interdisciplinary environmental issues; 4) Research and study skills needed for continuous professional development.

Teaching and Learning methods-Evaluation

DELIVERY	In person
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
Literature study	55
Writing project	55
Home study	51
Course total (25 hours per one ECT)	**200**

STUDENT PERFORMANCE EVALUATION

Elaboration & Presentation of Laboratory Exercises (at the semester's end)
Grading scale: 1-10. Passing grade: 5
Grading: 3 corresponds 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

- Dimopoulos P., Pantis J., Vagenas D., Tzanoudakis D. (Editors) 2009. Manual for Sustainable Management of Protected areas.
- Tsiripidis I., Xystrakis F., Kallimanis A.S., Panitsa M., P. Dimopoulos (2018). A bottom-up approach for the quantitative assessment of habitats structures and functions conservation status. Rendiconti Lincei. Scienze Fisiche e Naturali: 1-16.
- Dimopoulos, P., I. Tsiripidis, F. Xystsrakis, A. Kallimanis & M. Panitsa (2018): Methodology for monitoring and conservation status assessment of the habitat types in Greece. Ministry of Environment and Energy, National Center for the Environment and Sustainable Development. KATAGRAMMA Editions. ISBN 978-960-99033-2-5. 128 pages. Athens.
- European Commission (2006): Assessment, Monitoring and Reporting Under Article 17.
- Evans D, Arvela M (2011) Assessment and reporting under Article 17 of the Habitats Directive—explanatory notes & guidelines for the period 2007–2012—final Draft. European Topic Centre on
- Biological Diversity. Council Directive 79/409/EEC. On the Conservation of wild birds. Official Journal of European Communities
- Council Directive 92/43/EEC. On the Conservation of Natural Habitats and of Wild Fauna and Flora. Official Journal of European Communities.