#### **COURSE OUTLINE**

# (1) GENERAL

SCHOOL	HUMANITIE	HUMANITIES				
ACADEMIC UNIT	DEPARTMENT OF MEDITERRANEAN STUDIES					
LEVEL OF STUDIES	UNDERGRADUATE					
COURSE CODE	AYE-32	SEMESTER 5				
	GEOARCHAEOLOGY: INTERDISCIPLINARY APPROACHES				PPROACHES	
COURSE TITLE	IN MARITIME, COASTAL, INLAND					
	ARCHAEOE	•				
INDEPENDENT TEACHI	NG ACTIVITIES					
if credits are awarded for sepai	•	WEEKLY				
course, e.g. lectures, laboratory e	•	TEACHING		CREDITS		
are awarded for the whole of the	,					
teaching hours and th			_			
		3		5		
Add rows if necessary. The organisation of teaching and						
the teaching methods used are described in detail at (d).						
COURSE TYPE	Specialized general knowledge					
general background,						
special background, specialised						
general knowledge, skills						
development	N <sub>2</sub>					
PREREQUISITE COURSES:	No					
LANCHACE OF INSTRUCTION	Cuank					
LANGUAGE OF INSTRUCTION and EXAMINATIONS:	Greek					
IS THE COURSE OFFERED TO	No					
ERASMUS STUDENTS	No					
COURSE WEBSITE (URL)	https://eclass.aegean.gr/courses/TMS248/					
COORSE WEBSITE (ORL)	1111ps.//eciass.aegean.gi/courses/11vi324o/					

### (2) LEARNING OUTCOMES

### **Learning outcomes**

The course learning outcomes, specific knowledge, skills and competences of an appropriate level, which the students will acquire with the successful completion of the course are described.

# Consult Appendix A

- Description of the level of learning outcomes for each qualifications cycle, according to the Qualifications Framework of the European Higher Education Area
- Descriptors for Levels 6, 7 & 8 of the European Qualifications Framework for Lifelong Learning and Appendix B
- Guidelines for writing Learning Outcomes

With the successful completion of the course students should be able:

- to assess the relationship between archeology and environment and assess their interaction over the maritime, coastal & inland archaeology
- collect materials from the archaeological environment to reconstruct the archaeoenvironment and the coastal areas, managing the remnants of the ancient world

with the appropriate approach

- relate residues (animal, floral, geological, anthropogenic) according to their environmental background, identifying settlement landscape morphology
- to interpret geoarcheological background by means of disposed tools (digital imaging, design, material remains analysis, destruction causes of settlements, the cultural development level evaluation, cultural phase, etc.)
- to connect and classify their findings with each other comparing to other similar sites, to express and argument a risk assessment from natural phenomena and global climate change
- to know the approach of locating shipwrecks, their hauling, maintenance and residue studies of underwater archeology (ancient shipwrecks submersion of coastal towns, ancient natural disasters, show up of underwater archaeological resources, marine ecosystems) by using geoarchaeological techniques.
- to be aware of the direct relationship between archeology and environment that is essential for the identification of cultural phases, mainly regarding changes in sea level, extreme natural events, volcanoes, earthquakes, floods, tsunamis, explaining these in simple way with the theory of physics of chaos.

#### **General Competences**

Taking into consideration the general competences that the degree-holder must acquire (as these appear in the Diploma Supplement and appear below), at which of the following does the course aim?

Search for, analysis and synthesis of data Project planning and management

and information, with the use of the Respect for difference and multiculturalism necessary technology Respect for the natural environment Showing social, professional and ethical

Decision-making responsibility and sensitivity to gender issues

Working independently Criticism and self-criticism

Team work Production of free, creative and inductive

Working in an international environment thinking

Working in an interdisciplinary ......
environment Others...
Production of new research ideas ......

Search for, analysis and synthesis of data and information, with the use of the necessary

technology Decision-making

Working in an interdisciplinary environment

Production of new research ideas

# (3) SYLLABUS

The study of environment in ancient times includes several parameters related directly or indirectly to ancient man.

Particularly those parameters associated with 1) the marine environment/underwater archaeology (shipwrecks, submerged settlements), coastal and island settlements, 2) archaeology of natural disasters, 3) volcanic eruptions, earthquakes as causes of disasters, sinking, extinct cities, settlements, 4) elements of geomythology in relation to natural disasters, myths interpretation based on geological incidents, 5)geomorphology, paleoclimatology. Related chapters taught develop basic methodological notions and promote scientific skills relating interdisciplinary fields, as interpretive background, conducting to the geoarchaeological survey basics and basic geological methodological fields, as mineralogy, petrology, sedimentology, geomorphology, climatology, seismology, tectonics. In particular, in the course are examined the causes the consequences of the

eustatic movements, the climatic changes on the Quaternary, with emphasis on Holocene. It is discussed, using additional scientific data related to paleoastronomy, the causes of origin of Earth's orbital changes, which are further related to the periodicity of climatic changes (Milankovich theory of ice ages), and especially those related to the phenomena of succession of glacial-interglacial periods that affected the evolution of life on Earth and especially the human life over the course of geological-archaeological time.

# (4) TEACHING and LEARNING METHODS - EVALUATION

	I				
DELIVERY	Face to face	Face to face			
Face-to-face, Distance learning,					
etc.					
USE OF INFORMATION AND	PowerPoint presentations				
COMMUNICATIONS					
TECHNOLOGY					
Use of ICT in teaching, laboratory					
education, communication with					
students					
TEACHING METHODS	Activity Semester workload				
The manner and methods of	Lectures 39 hrs (1.56 ECTS)				
teaching are described in detail.	Personal study 83 hrs (3.32 ECTS)				
Lectures, seminars, laboratory	End of semester exam 3 hrs (0.12 ECTS)				
practice, fieldwork, study and					
analysis of bibliography, tutorials,	Course total 125 hrs (5 ECTS				
placements, clinical practice, art					
workshop, interactive teaching,					
educational visits, project, essay					
writing, artistic creativity, etc.					
The student's study hours for each					
learning activity are given as well					
as the hours of non-directed study					
according to the principles of the					
ECTS					
STUDENT PERFORMANCE	Written or oral exams				
EVALUATION					
Description of the evaluation					
procedure					
Language of evaluation, methods					
of evaluation, summative or					
conclusive, multiple choice					
questionnaires, short-answer					
questions, open-ended questions,					
problem solving, written work,					
essay/report, oral examination,					
public presentation, laboratory					
work, clinical examination of					
patient, art interpretation, other					
Specifically-defined evaluation					
criteria are given, and if and					

where they are accessible to students.

# (5) ATTACHED BIBLIOGRAPHY

# **Greek language**

Καραλή Λίλιαν (2005) Περιβαλλοντική Αρχαιολογία, Εκδ. Καρδαμίτσα, Αθήνα

Λυριτζής Ιωάννης (2005) Αρχαιολογία και περιβάλλον, Εκδ Καρδαμίτσα, Αθήνα

Renfrew, C & Bahn, P (2001) Αρχαιολογία: Θεωρίες, μεθοδολογία και πρακτικές εφαρμογές. (μτφρ. Ι. Καραλή-Γιαννακοπούλου) Εκδ. Καρδαμίτσα

# Foreign language

Branch, Nick et al, 2005, Environmental Archaeology, Theoretical and Practical Approaches Oxford University Press, Oxford & New York.