COURSE OUTLINE

1. GENERAL

SCHOOL:	Engineering			
ACADEMIC UNIT:	Industrial Design and Production Engineering			
LEVEL OF STUDIES:	Undergraduate			
COURSE CODE:	7010	SEMESTER 7		
COURSE TITLE:	Art, Technology and Culture			
INDEPEN	INDEPENDENT TEACHING ACTIVITIES		WEEKLY TEACHING HOURS	ECTS CREDITS
	Theory (Lectures)			3
Laboratory		1	2	
			4	5
COURSE TYPE:	Special background, skill development			
PREREQUISITES COURSES:	No			
LANGUAGE OF INSTRUCTION and EXAMINATIONS:	Greek			
IS THE COURSE OFFERED TO ERASMUS STUDENTS	No			
COURSE WEBSITE (URL)	https://eclass.uniwa.gr/courses/IDPE212/			

2. LEARNING OUTCOMES

Learning Outcomes

Upon successful completion:

- Students will have sufficient basic and advanced knowledge of general principles of technology applied in the study of artworks, archaeological artifacts and cultural goods.
- They will possess advanced knowledge and skills about new technologies applied in Cultural Heritage materials in a way that demonstrates professionalism.
- They will be able to solve complex and unpredictable problems related to the proper selection of a method for studding an archaeological material or artwork.
- Also, they will be able to solve specific problems related to cultural heritage
- He will have developed a critical awareness of the various issues when Technology is applied on Cultural Heritage
- They will be able to develop new knowledge and processes and integrate cutting-edge knowledge from different scientific fields.
- In terms of skills, they will be able to manage complex work environments and problems and develop new approach strategies.

General Competences

- 1. Search for, analysis and synthesis of data and information, with the use of the necessary technology
- 2. Adapting to new situations

- 3. Decision-making
- 4. Working independently
- 5. Team work
- 6. Working in an international environment
- 7. Working in an interdisciplinary environment
- 8. Production of new research ideas
- 9. Project planning and management
- 10. Respect for difference and multiculturalism
- 11. Respect for the natural environment
- 12. Production of free, creative and inductive thinking

3. SYLLABUS

Art as an expression of thoughts and feelings, as aesthetics

Technology as a mean of implementation, as tools and processes, as skills and applied Knowledge.

Interdisciplinary approach of the relation of art, culture and technology

History of art. Art movements. Evolution of Technology.

Tangible and intangible cultural heritage.

Fine arts and new technologies

Applied arts and industrial design.

Special subjects of art and technology: non-destructive analyses of cultural heritage materials for revealing their chemical composition. Archaeometry. 3D digitalization and 3D printing. Reconstruction and Photogrammetry.

4. TEACHING and LEARNING METHODS – EVALUATION

DELIVERY	Face-to-face and distance learning			
USE OF INFORMATION AND	• Use of ICTs in theoretical teaching and use of ICTs in			
COMMUNICATION TECHNOLOGY	lecturing			
	Use of ICTs for the communication with students via the			
	e-class platform			
TEACHING METHODS	Method description / Activity	Semester Workload		
	Lectures	39		
	Laboratory work	30		
	Non-guided personal study	81		

	Course Total (30h/ECTS)	150	
STUDENT PERFORMANCE	Language of Assessment		
EVALUATION	Greek		
	Description		
	Final exams with several type of questions such as multiple		
	choice, short-answer questions and problem solving.		
	Student assessment methods		
	• Final Exams: 70%		
	 Final written laboratory work/essay/reports: 		
	30%		
	The assessment criteria are announced to students at the		
	beginning of the semester and are published on the course		
	webpage in the e-Class platform.		

5. ATTACHED BIBLIOGRAPHY

- Suggested bibliography:

- 1. Liritzis I.(ed) New technologies applied to archaeological sciences, Dardanos Publications. 2008
- 2. Mpounia A, Nikonanou N. Oikonomou M, Technology In The Service Of Cultural Heritage, Apostolakis publications. 2008
- 3. Arnheim, Rudolf, Art and Visual Perception: A psychology of the creative eye; The New Version, University of California Press, 1997

- Related academic journals:

- Journal of Archaeological Science, Elsevier
- Journal of Cultural Heritage, Elsevier
- Heritage, MDPI