SCHOOL	APPLIED ARTS & CULTURE				
DEPARTMENT	GRAPHIC AND VISUAL COMMUNICATION DESIGN				
LEVEL OF STUDIES	Undergraduate				
COURSE CODE	N1-4070				
COURSE TITLE	SCIENCE OF LITHOGRAPHY PRINTING AND DIGITAL PRINTING				
INDEPENDENT TEACH					
if credits are awarded for separate cor			WEEKLY		
lectures, laboratory exercises, etc. If the credits are awarded for			TEACHING		CREDITS
the whole of the course, give the weekly teaching hours and the total credits			HOURS		
Lectures			2		4
Workshop			2		2
Workshop					
Add rows if necessary. The organization of teaching and the				4	6
teaching methods used are described in detail at (d).				· l	
COURSE TYPE	Specialisation course				
general background, special					
background, specialized general knowledge, skills development					
PREREQUISITE COURSES:					
LANGUAGE OF	GRFFK				
INSTRUCTION and	GREEK				
EXAMINATIONS:					
IS THE COURSE OFFERED TO	YES				
ERASMUS STUDENTS	· <del></del>				
COURSE WEBSITE (URL)	https://eclass.uniwa.gr/courses/GD211/				
	, <u>, .</u>				

#### (1) 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
- The student will be familiar with the basic principles of offset (lithography) and digital printing principles
- The student will be able to understand how offset printing machines work and to evaluate the comparative advantage of offset printing over other methods of commercial printing
- The student will be able to understand how digital printing machines work and evaluate the comparative advantage of digital printing over other methods of commercial printing
- The student will be able to understand the potential for hybridisation in modern printing presses in order to meet the economic challenges of competition
- The student will be able to operate offset and digital printing presses to produce simple commercial printing
- The student will be able to organise production processes involving offset and digital printing machines in order to produce simple commercial forms (letterheads, cards, envelopes, books, magazines)

## **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 and Project planning and management information, Respect for difference and multiculturalism

with the use of the necessary technology Respect for the natural environment

Adapting to new situations Showing social, professional and ethical responsibility and

Decision-making sensitivity to gender issues Working independently Criticism and self-criticism

Team work Production of free, creative and inductive thinking

Working in an international environment ......

Working in an interdisciplinary environment Others...

Production of new research ideas .......

- Research, analysis and synthesis of data and information, using the required technologies
- Adaptation to new situations
- Decision-making
- Independent work
- Working in an interdisciplinary environment
- Project planning and management
- Promoting free, creative and deductive thinking

#### (2) SYLLABUS

- Principles of offset lithography
- Offset machine mechanics Offset machine settings
- Offset printing process chemistry adjustment of factors affecting the printing result
- Offset plate making and plate making systems
- Printing of monochrome and two-colour projects with offset machines
- Finding measures on machines
- Principles of digital printing (spray method, thermal method, organic photoconductor, electrostatic, electrophotography, etc.)
- Print quality control elements
- Printing on various substrates

#### (3) TEACHING and LEARNING METHODS - EVALUATION

Pace-to-face, Distance learning, etc	Face-to-face, laboratory exercise, industrial visits, written examination			
USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY Use of ICT in teaching, laboratory education, communication with students	Use of computers for: The teaching of the theoretical part, The conduct of the laboratory projects and The communication with the students			
TEACHING METHODS  The manner and methods of teaching are described in detail.  Lectures, seminars, laboratory practice, fieldwork, study and analysis of hibliography.	Activity	Semester workload		

workshop, interactive teaching, educational				
visits, project, essay writing, artistic creativity,				
etc.				
The student's study hours for each learning	Course total	150		
activity are given as well as the hours of non- directed study according to the principles of				
the ECTS				
STUDENT PERFORMANCE EVALUATION				
Description of the evaluation procedure				
Description of the evaluation procedure	In Greek language,			
Language of evaluation, methods of	A. Problem solving - Short answer questions written			
evaluation, summative or conclusive, multiple	· ·			
choice questionnaires, short-answer questions,	exam - (theoretical part),			
open- ended questions, problem solving,	D Donorte on the workshop subject. Oral evams on			
written work, essay/report, oral examination,	offset machines and on the submitted project files			
public presentation, laboratory work, clinical				

Specifically-defined evaluation criteria are given, and if and where they are accessible to students.

examination of patient, art interpretation,

platform of the course.

(practical part), Assessment criteria on the electronic

# (4) ATTACHED BIBLIOGRAPHY

Suggested bibliography:

other

1. Helmut Kipphan: Handbook of Print Media

2. Dennis Erwin, Odesina Olusegun, Wilson Daniel: Σύγχρονη Λιθογραφία ΙΙ

Σημειώσεις μαθήματος: Λιθογραφία όφσετ ΙΙ Δ. Στανγκανέλης

Related academic journals: Visual Communication Journal Acta Graphica

IARIGAI Journal