SCHOOL	APPLIED ARTS & CULTURE
DEPARTMENT	GRAPHIC AND VISUAL COMMUNICATION DESIGN
LEVEL OF STUDIES	Undergraduate

COURSE CODE	**N1-8120**	**SEMESTER**	**7**

COURSE TITLE	**PRINTING SCIENCE - SCREEN PRINTING II**

INDEPENDENT TEACHING ACTIVITIES *if credits are awarded for separate components of the course, e.g. lectures, laboratory exercises, etc. If the credits are awarded for the whole of the course, give the weekly teaching hours and the total credits*	**WEEKLY TEACHING HOURS**	**CREDITS**
Lectures		
Workshop		
Add rows if necessary. The organization of teaching and the teaching methods used are described in detail at (d).	3	4,0

COURSE TYPE *general background, special background, specialized general knowledge, skills development*	Scientific Area
PREREQUISITE COURSES:	
LANGUAGE OF INSTRUCTION and EXAMINATIONS:	GREEK (Teaching and exam)
IS THE COURSE OFFERED TO ERASMUS STUDENTS	YES (in English - Teaching and Exam)
COURSE WEBSITE (URL)	

(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*

Upon successful completion of the course the student will:

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- have applied the knowledge of screen printing I, physics, color, chemistry, materials, inks and image processing to the implementation of prepress and printing tasks
- has become familiar with the proper use of materials, tools and machines that take part in the design and workflow for the implementation of a screen printing project.
- has a good understanding of how color separation works, for the reproduction of both linear and rasterized subjects.
- have a deep understanding of the reproduction of screen-printed subjects and have applied this technique on at least 2 different materials (paper, fabric)
- have developed critical thinking on the correct flow of the individual production stages and operations involved in the creation and completion of works produced by screen printing
- be able to apply his/her knowledge to solve problems for the optimization of a workflow, speed and reduction of production costs.

- Ability to design and implement print jobs
- Ability to work independently and/or in a team
- Promotion of free, creative and deductive thinking
- Apply the acquired knowledge and make decisions for the correct implementation of production tasks
- Apply and observe health and safety procedures.

(2) ΠΕΡΙΕΧΟΜΕΝΟ ΜΑΘΗΜΑΤΟΣ

Revision and application of the knowledge of the course Screen Printing I.
Color Separations and prepress operations for the reproduction of pseudo-tone subjects.
Methods of creating a printing subject on screen printing plates, phototransferring them, and the process of developing plates for high-end reproductions.
Construction of plates and use of instruments for checking the tension of the gauze, and suitability of the plates for printing operations.
Printing using epoxy inks on smooth rigid substrates. Taking safety and health measures when handling both epoxy and solvent inks when reproducing pseudo-tonal subjects.
Materials and density regulators in the original inks used with the use of additional plasticisers, resins, pigments, etc.
Preparation and printing with inks on light-coloured fabrics.
Procedure for recycling printing plates and methods of checking their suitability for subsequent use. CT Screen technologies, and developments in printing machines in terms of modern data (shape, material, surfaces) and automation.

(3) TEACHING and LEARNING METHODS - EVALUATION

DELIVERY Face-to-face, Distance learning, etc	In the classroom (auditorium and laboratory)
USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY Use of ICT in teaching, laboratory education, communication with students	Presentation software (PowerPoint)

TEACHING METHODS The manner and methods of teaching are described in detail. Lectures, seminars, laboratory practice, fieldwork, study and analysis of bibliography,	**Activity**	**Semester workload**

tutorials, 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		
	Course total	*100*
STUDENT PERFORMANCE 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.	In Greek language, A. Problem solving - Short answer questions written exam - (theoretical part), B. Reports on the workshop subject, Oral exams on offset machines and on the submitted project files (practical part), Assessment criteria on the electronic platform of the course.	

(4) ATTACHED BIBLIOGRAPHY

Suggested bibliography:
1. Kipphan, H., Color Measurement Methods and Systems in Printing Technology and Graphic Arts, SPIE, The International Society for Optical Engineering, Vol. 1912, Bellingham 1993
2. Screen Coating Techniques, Kiwoinc.
3. διαθέσιμο από: http://www.kiwo.com/s/Screen-Coating-Techniques.pdf
4. The Future of Screen Printing, FESPA, 2015, διαθέσιμο από:
5. http://www.fespa.com/news/industry-news/the-future-of-screen-printing.html
6. Brad Faine, The New Quide To Screen Printing, Simon & Schuster, Australia 1991
7. Dave Dennings, Understanding Mesh Geometry, Stencil Resolution, and Measuring Systems for Quality Control, SGIA Journal, April, 1998
8. Printcolor, Frequency-modulated halftones for screen printing, June 2007
9. FESPA Hellas, Διαχείριση Χρώματος και αναπαραγωγή, Τεχνικό εγχειρίδιο, 2020

Σημειώσεις του μαθήματος:
10. 1. Μηλιώνης Νίκος, Μεταξοτυπία 1 και Μεταξοτυπία 2, Αθήνα 1997
11. 2. Αντώνης Τσιγώνιας, Συμπληρωματικές σημειώσεις στο μάθημα της Μεταξοτυπίας, Αιγάλεω 2014