COURSE OUTLINE

(1) GENERAL

SCHOOL	SCHOOL OF APPLIED ARTS & CULTURE		
ACADEMIC UNIT	DEPARTMENT OF GRAPHIC AND VISUAL COMMUNICATION DESIGN		
LEVEL OF STUDIES	Undergraduate		
COURSE CODE	N1-5160	SEMESTER	5
COURSE TITLE	**COLOR MANAGEMENT**		

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	2	
Laboratory Exercises	2	
TOTAL	4	5
Add rows if necessary. The organisation of teaching and the teaching methods used are described in detail at (d).		

COURSE TYPE *general background, special background, specialised general knowledge, skills development*	Special background course Skills development
PREREQUISITE COURSES:	NOT
LANGUAGE OF INSTRUCTION and EXAMINATIONS:	Greek (Teaching and examination)
IS THE COURSE OFFERED TO ERASMUS STUDENTS	YES (in English - Teaching and Examination)
COURSE WEBSITE (URL)	https://eclass.uniwa.gr/courses/GD188/

(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*

The aim of the course is to acquire the knowledge of students in specialized subjects of color management that are applicable to graphic arts.

Upon successful completion of the course the students will be able to:
• Understand the basic terms related to color management
• To analyze the techniques and parameters in the process of color processing and in the communication of the various devices
• Evaluate the degree of color change at all stages of the graphic arts workflow
• Solve problems related to digital color management

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 information, with the use of the necessary technology *Adapting to new situations* *Decision-making* *Working independently* *Team work* *Working in an international environment* *Working in an interdisciplinary environment* *Production of new research ideas*	*Project planning and management* *Respect for difference and multiculturalism* *Respect for the natural environment* *Showing social, professional and ethical responsibility and sensitivity to gender issues* *Criticism and self-criticism* *Production of free, creative and inductive thinking* *……* *Others…* *…….*

- Search, analysis and synthesis of data and information, using the necessary technologies
- Project design and management
- Adaptation to new situations
- Decision making
- Teamwork
- Work in an international environment
- Production of new research ideas
- Promoting free, creative and inductive thinking

(3) SYLLABUS

COURSE DESCRIPTION

Theoretical part

- Workflow in color processing and management.
- Color management tools and software.
- Input profile - scanners and digital cameras. Simulation profile.
- Color profile of PC projectors.
- Features and profiles in the printing process.
- Profile templates for offset printing and control systems.
- Color conversion with color profiles.
- Color-accurate work with CMYK data.
- Simple workflow with CMYK data.
- Color management with RGB data.
- Color management with built-in profiles.
- Department of Labor and Communication.
- Standards and specifications in color reproduction.
- The relationship of black with cyan, magenta, yellow.
- UCR and GCR.
- UCR and GCR: the importance of paper color.
- UCR and GCR in different programs.
- Prototype Profiles for bold, continuous form and newspapers

Laboratorial part

The laboratory part of the course includes individual exercises through special tools and software, which aim at identifying and solving the problems of digital color management. The respective parameters are analyzed and the optimal method of color processing is implemented.

(4) 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) Learning process support through the electronic platform E-Class Job evaluation and notification of progress control Laboratory training.
TEACHING METHODS *The manner and methods of teaching are described in detail.* *Lectures, seminars, laboratory practice, fieldwork, study and analysis of bibliography, 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*	

Activity	*Semester workload*
Lectures	
Study and analysis of bibliography - writing works	
Laboratory exercises	
Course total	*125*

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.*	I. Written final exam including short development and problem-solving questions (Theoretical part). II. Presentation of group or individual work (20%) Submission of workbook, Reports on the subject of laboratory exercises, Oral examination on the content of the workbook (laboratory part), Evaluation criteria on the electronic platform of the course.

(5) ATTACHED BIBLIOGRAPHY

- *Suggested bibliography:*

1. Billmeyer, F. W. Jr., & Saltzman, M. (1981). "Principles of Color Technology". 2nd Edition. New York: John Wiley & Sons, Ltd.
2. DiCosola, M. (1995). "Understanding Illuminants". X-Rite
3. Fraser, B., Murphy, C., Bunting, F. (2005). Real World Color Management. 2nd Edition. Berkeley, CA, USA: Peachpit Press.
4. Giorgianni, Edward J., Madden, Thomas E. (1998). Digital Color Management. Addison-Wesley.
5. Homann, Jean P. (2009). Digital Color Management Principles and Strategies for the Standardized Print Production. Springer-Verlag Berlin Heidelberg.
6. Hunt, R. W. G. (2004). The Reproduction of Color. John Wiley & Sons, Ltd.
7. Kang, H. R. (1997). Color Technology for Electronic Imaging Devices. SPIE Optical Engineering Press.
8. Kipphan, H. (2001). Handbook of Print Media. Berlin: Springer Verlag.
9. Kuehni, R. G. (2005). "Color. An Introduction to Practice and Principles". 2nd Edition. Canada: John Wiley & Sons
10. Morovic, Jan (2008). Color Gamut Mapping. Wiley, ISBN 978-0-470-03032-5.
11. Stiles, W.S., & Wyszecki, Günter, (1982). Color Science: Concepts and Methods, Quantitative Data and Formulae. 2nd Edition. New York: John Wiley & Sons.
12. "Color & Quality". (2008). Germany: Heidelberg Druckmaschinen AG.
13. "Media Standard Print 2018". (2018). Germany: Bundesverband Druck und Medien e. V.
14. "PSD, Process Standard Digital. Handbook 2014". (2012). Germany: Fogra Research Institute for Media Technologies.

15. “PSD, Process Standard Digital. Handbook 2018”. (2012). Germany: Fogra Research Institute for Media Technologies.
16. Teaching Course Notes