PI-02-F-16 ED. 00

## **COURSE GUIDE:**

# Production and printing techniques

MULTIMEDIA Y ARTES DIGITALES Universidad Católica de Valencia

Course 2025/26



PI-02-F-16 ED. 00

## **COURSE GUIDE Production and printing techniques**

			ECTS	
SUBJET::	Production and printing technique	ies	6	
Matter: Pul	blications Design		12	
Module: Graphic development			30	
Type of Learning 1: Compulsory  YEAR: 4° Semester: 1°				
Tagahaw		Departament:: Mu	ltimedia	
Teacher:  Nuria Pérez Gisbert  E-mail:  npgisbert@ucv.es				

## **SUBJECT ORGANIZATION**

	Nº	Nº ECTS 30		
D	uration a	and temporal location within the curriculum:		
		Subjects and Courses		
Subject	ECTS	COURSES	ECTS	Course/ semester
Graphic Creativity	6	Fundamentals of Creativity	6	2/2
Publishing Loyout	ut 12	Typography and Layout of publications	6	2/1
Publishing Layout		Production and printing techniques	6	4/1
Corporate	12	Corporate Identity	6	3/1
Identity	12	Concept and creation of packaging	6	3/2

<sup>1</sup> Basic Training (ordinary matter), compulsory, optional, external Practices, Final Project.



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## Teaching guide matter / subject:

Publication Design / Production and Printing Techniques

**Prerequisites:** Having passed the subject of Typography and Layout of Publications.

### **GENERAL OBJECTIVES**

- 1. Master the language and concepts of graphic production and printing.
- 2. Know the historical and theoretical principles of the printing processes.
- 3. Devise, conceptualize, create and produce graphic projects with a high aesthetic and functional criteria from its conception to its printed or electronic dissemination.
- 4. Be able to analyze society, the target audience and market trends to find the appropriate responses to the demands and resources of a specific context.
- 5. Direct or carry out graphic projects. Being able to understand the processes of graphic production and carrying out briefings and design plans, in which the needs, deadlines, etc., of a project are raised.
- 6. Identify, classify and assimilate any type of print through its structure and composition, whether printed or virtual.
- 7.Generate designs and final arts adapted to new technologies and representation systems that respond to the current and future needs of companies.
- 8. Manage, classify and prepare the content of a publication for its correct reproduction and electronic or printed distribution.
- 9. Acquire the fundamental notions about the production and printing processes.
- 10. Acquire the ability to art to finish a job in order to send it to the printer.
- 11. Know the different tools and materials that exist in the field of printing.
- 12. Acquire the ability to carry out your own project from the first sketches to its completion and output both to print and digital media.





BASIC SKILLS		Weighting o		
	1	2	3	4
<b>CB. 1</b> That students have demonstrated possession and understanding of knowledge in an area of study that starts from the base of general secondary education, and is usually found at a level that, although supported by advanced textbooks, also includes some aspects that imply knowledge coming from the forefront of their field of study.				х
<b>CB. 2</b> That students know how to apply their knowledge to their work or vocation in a professional way and possess the skills that are usually demonstrated through the elaboration and defense of arguments and the resolution of problems within their area of study.			х	
<b>CB. 3</b> That students have the ability to gather and interpret relevant data (normally within their area of study) to make judgments that include a reflection on relevant issues of a social, scientific or ethical nature.				х
CB. 4 That students can transmit information, ideas, problems and solutions to both specialized and non-specialized audiences				х
<b>C.B. 5</b> That students have developed those learning skills necessary to undertake further studies with a high degree of autonomy.			x	

GENERAL COMPETENCIES		Veigh comp		
	1	2	3	4
CG.01 Capacity for analysis and synthesis			x	
CG.02 Capacity for organization and planning			x	
CG.05 Computer skills related to the field of study				X
CG.07 Troubleshooting			x	
CG.08 Ability to adequately present a curriculum vitae, a sample of one's own work, such as a portfolio and a professional presentation.				X
CG.09 Decision making		x		
CG.10 Teamwork	x			
CG.11 Work in an interdisciplinary team		x		
CG.14 Critical reasoning		x		
CG.16 Ability to assume responsibilities			х	
CG.17 Capacity for self-criticism				X



CG.18 Autonomous learning and motivation for training throughout their professional life	x		
CG.19 Adaptation to new situations	x		
CG.20 Creativity			x
CG.22 Ability to collaborate with other professions and especially with professionals from other fields. Identify the right professionals to properly develop creative work.	х		
CG.25 Motivation for quality			x
CG.28 Sensitivity towards cultural heritage		x	
CG.32 Teaching at basic levels, dissemination, etc. Opt for teaching positions at different educational levels. Design, preparation and delivery of courses related to Multimedia and Digital Arts, aimed at professionals, companies and administrations.		x	

SPECIFIC COMPETENCES		Weigh comp		
	1	2	3	4
EC.02. artistic sensibility. Develop the ability to perceive beauty in different forms and artistic creations, applying aesthetic principles and promoting creativity and multidisciplinary innovation.			x	
CE.03. Knowledge of specific methods of production and digital artistic techniques especially to apply them to the world of communication, also looking for new media.				x
EC.04. Development of skills in traditional illustration techniques and procedures and in digital techniques for the creation and development of graphic elements, images, symbols, texts, layout of publications and product packaging.			x	
EC.05. Ability to organize, classify and index all the materials and files used in the development of the project, generating documents for their proper conservation or consultation. As well as capacity for subsequent search and recovery of information.		x		
EC.08. Ability to organize and process the information that will later be included in the project.	x			
EC.09. Ability to plan and direct projects and developments of technological content, particularly those related to art, multimedia design and communication.			x	
EC.10. Ability to translate creative ideas so that they can be transmitted in digital format.				x
EC.12. Sensitivity to assess the importance of design in the formulation of messages and in the impact of their transmission in the different communicative fields.		x		
EC.13. Ability to contribute to the contemporary debate on digital and multimedia arts and practices.	x			
EC.17. Understanding of the characteristics of the digital production sector and its operation and the trends that mark its current and future evolution.				x
EC.19. Global understanding of artistic and multimedia practices and the importance of their relationship with their socioeconomic and cultural context.				x





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LEARNING OUTCOMES 2	COMPETENCIES
R2 - Knowledge of the editorial process and types of publications.	CB: 1,2,3,4,5 CG:1,2,5,7,8,9,10,11,14,16,17,18,19, 20,22,25,28,32 CE: 2,3,4,5,8,9,10,12,13,17,19
R3 - Command of computer applications related to layout.	CB: 1,2,3,4,5 CG:1,2,5,7,8,9,10,11,14,16,17,18,19, 20,22,25,28,32 CE: 2,3,4,5,8,9,10,12,13,17,19
R6 - Command of printing techniques and their suitability for printed or electronic output	CB: 1,2,3,4,5 CG:1,2,5,7,8,9,10,11,14,16,17,18,19, 20,22,25,28,32 CE: 2,3,4,5,8,9,10,12,13,17,19
R7 - Appropriate selection of materials, possibilities and printing supports.	CB: 1,2,3,4,5 CG:1,2,5,7,8,9,10,11,14,16,17,18,19, 20,22,25,28,32 CE: 2,3,4,5,8,9,10,12,13,17,19
R8 - Originality and proposal of creative solutions to problems of support, printing, materials and digital creationl.	CB: 1,2,3,4,5 CG:1,2,5,7,8,9,10,11,14,16,17,18,19, 20,22,25,28,32 CE: 2,3,4,5,8,9,10,12,13,17,19

<sup>2</sup> List the learning outcomes consecutively following the proposed nomenclature.

**Important note:** The competencies are expressed in a generic sense, so it is necessary to include the learning outcomes in the teaching guide. These results constitute a specification of one or several competencies, making explicit the degree of mastery or performance that the student must acquire and contain in their formulation the criteria with which they are going to be evaluated. The learning outcomes show what the student will be able to demonstrate at the end of the course or subject and also reflect the degree of acquisition of the competence or set of competences.



CLASRROM WORK TRAINING ACTIVITIES					
ACTIVITY	Teaching-Learning Methodology	Relationship With Learning Outcomes for the subject	ECTS		
CLASS ATTENDANCE	Introductory presentation of each topic by the teacher. Definition of the objectives of knowledge and skills to be achieved; explanation of the activities to be carried out and the methodology to be followed, as well as the instruments and evaluation criteria. Specific instructions about group and individual work on each topic.	R2, R3, R6, R7, R8	1		
PRACTICAL CLASSES	Activities aimed at developing skills and related to the contents of each topic: bibliographic search in the library, critical analysis of materials about the contents of the topic, critical analysis of models of communication and artistic creation, elaboration of an outline of the contents of each subject, searches on the Internet, use of information technology for the use of digital tools and realization of the proposed contents.	R2, R3, R6, R7, R8	1		
GROUP WORK EXHIBITION	Application of interdisciplinary knowledge in oral presentation by groups of the work carried out.		0		
OFFICE ASSISTANCE	Apersonalized attention and in a small group. Period of instruction and/or orientation carried out by a tutor in order to review and discuss the materials and topics presented in classes, seminars, readings, work, etc.	R2, R3, R6, R7, R8	0,25		
EVALUATION	Set of oral and/or written and/or practical tests used in the initial, formative or summative evaluation of the student.	R2, R3, R6, R7, R8	0,15		
		Total	(2,4*)		

of the evaluation instruments)

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EDUCATIONAL ACTIVITIES INDEPENDENT STUDENT WORK					
ACTIVITY		Teaching-Learning Methodology	Relationship of Course with Learning Outcomes	ECTS	
GROUP WORK	essay semir expos theor	o preparation of readings, vs, problem solving, nars, papers, reports, etc. to se or deliver in the etical classes, practical es and/or small group als.	R2, R3, R6, R7, R8	0	
INDEPENDENT WORK	readii works delive classe small	dual preparation of eases, s, reports, etc. to expose or er in the theoretical es, practical classes and/or group tutorials. Work done e platform or other virtual es.	R2, R3, R6, R7, R8	3,6	
			Total	(3,6*)	
SYSTEM FOR ASS		NG THE ACQUISITION ID ASSESSMENT SYS		ENCES	
Evaluation instrument <sub>3</sub>		ASSESSED LEARNING OUTCOMES		Percentage awarded	
Delivery of individual works. (It will be essential to deliver it on the agreed date and time to average with the rest)		R2, R3, R6, R7, R8		30%	
Attendance and active participation in class (Participation, theoretical and practical sessions)		R2, R3, R6, R7, R8		10%	
Test (It will be essential to pass these tests to average the rest of the evaluation instruments)		R2, R3, R6, R7, R8		60%	

<sup>&</sup>lt;sup>3</sup> Assessment techniques and instruments: oral exam-exposition, written tests (objective tests, development tests, concept maps...), supervised work, projects, case studies, observation notebooks, portfolio, etc.





- Attendance is not scored, participation is. The Participation percentage will be 10%, and will be reflected through participation records by the teacher and the completion of various exercises in the classroom. Repeated lack of attention in the classroom (use of cell phones without authorization, viewing other platforms or other subjects, etc.) will result in the loss of this percentage.
- The practical content will have a percentage of 30% of the final grade (it will consist of three projects with a value of 10% each).
- The exam will have a percentage of 60% of the final grade. This percentage is obtained by taking a written test that will consist of a series of theoretical-practical questions (40%) and a final work that will be presented individually (20%). It is essential to present and pass the final practice to take the exam.
- If the exam is not passed, the call will be suspended, and the grade obtained in the exam will appear in the minutes, a rule that will be applied to both the first and second call. To compute and average the grades for the practical content, both the final work and the final exam of the 1st or 2nd call must be approved.
- The final written test will consist of a theoretical part and a practical part, being mandatory to pass both parts to make the average. Failure of the theoretical or practical part, as well as failure of the final work or failure to present said work, will result in failure of the subject.
- The student's presence in the classroom at the beginning of the exam will lead to its evaluation, without the possibility of being able to claim as not presented, even if the student is absent as soon as the exam begins.
- Once the first call has been approved, work cannot be submitted to raise the grade obtained in it. If the exam is failed in the first call, the student must take and pass the second call exam to pass the subject.
- If the exam is passed, but when the average is taken with the work submitted, it comes out below 5, the subject is suspended. The student must take the second call exam.
- In case of suspending the first call, a work may be presented for the second call, at the discretion of the professor, which will replace one not delivered or with a low grade from the first call; The grade of the first work would be canceled and will be replaced by the one obtained in this new work.
- The delivery of work will not be allowed outside the date and time established on the platform for each one. The delivery of said works can only be done through the platform. The format will be determined in each statement thereof. Submission in a format other than the one specified will result in failure of the work without possible grading.
- Detection of plagiarism or copying of any work will result in its suspension. Plagiarism is considered the use of the work of others not cited by the tutor or the abusive use of material not one's own for its preparation. (More than 35%). The copy or falsification of designs or works extracted from the Internet, another medium or partner will mean the cancellation of the set of practical deliveries.





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**Single assessment**: In accordance with Article 9 of the General Regulations for the Assessment and Grading of Official Studies and UCV-Specific Degrees, the single assessment is linked to the inability of students enrolled in a face-to-face degree program to attend. It is, therefore, an extraordinary and exceptional assessment system available to students who, with justified and accredited documentation, are unable to submit to the continuous assessment system. They may request this from the professor responsible for the subject, who will expressly decide whether to accept the student's request for a single assessment and will inform them of the acceptance/denial.

For the Printing Techniques course, the minimum attendance requirement is 50%. This is the limit to be taken into consideration for any potential single assessment request. If granted, the requirement will be based on the following criteria:

-In the first sitting: The same exercises and project will be completed as in the continuous assessment, with a 40% weighting of the final grade, always with prior advice and supervision from the professor. They must be submitted within the same deadline as those for continuous assessment. Group assignments will be completed individually. The exam must be taken on the same date and in the same format as your classmates, and will be theoretical and practical. It will be weighted 60% of the final grade.

-In the second sitting: Those assignments that were not submitted or failed in the first sitting will be allowed to be submitted. They will be added to the rest of the assignments and will be weighted 40% of the final grade. Always with the advice and supervision of the professor. The exam will be theoretical and practical. It will be weighted 60% of the final grade."

**Honor Registration:** The "Honor Registration" mention may be awarded to students who have obtained a grade equal to or greater than 9.0. Their number may not exceed five percent of the students enrolled in a group in the corresponding academic year, unless the number of students enrolled is lower.

OBSERVATIONS: USE OF AI Students may use AI: -

In exercises or projects authorized by the teacher, such as searching for resources and graphic references to support the student's work. They must cite the part of the activity where AI was used, which AI was used, and what it was used for. It should never exceed 50% of the student's work. - To improve the writing of written documents, provided the original content is the student's own.

Students may not use AI to: - Record or transcribe, in whole or in part, any classroom activity in order to obtain summaries or notes created by AI.

- Present work generated by AI as their own.
- To replace methodologies taught in the classroom.

DESCRIPTION OF CONTENTS	COMPETENCES
Graphic production techniques	
<ol> <li>History of printing systems.</li> <li>Graphic production, theory and phases</li> <li>The color in the prepress process. Spot colors/CMYK</li> <li>The final art and how to prepare the documents for printing.</li> <li>The rasterization process. Resolution, plot and angle.</li> <li>Profiles and calibration</li> <li>Realization of projects</li> </ol>	CB: 1,2,3,4,5 CG:1,2,5,7,8,9,10,11,14,16, 17, 18,19,20,22,25,28,32 CE: 2,3,4,5,8,9,10,12,13,17,19
Printing	
8. Printing materials and media 9. Special and manipulated finishes. 10. Digital printing 11. The Binding 12. Printing systems: Offset, flexography, rotogravure and screen printing	CB: 1,2,3,4,5 CG:1,2,5,7,8,9,10,11,14,16, 17, 18,19,20,22,25,28,32 CE 2,3,4, ,8,9,10,12,13,17, : 5 19



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### **BIBLIOGRAPHY**

- -Manual de producción gráfica, Recetas. Kaj Johansson, Peter L y Robert R. Edit. GG
- -Diseño y producción gráfica:... Rafael Pozo Puértolas. Edit.CPG
- -La Imagen grafica y su reproducción. Josep Formenti (Autor), Sergio Reverte (Autor). Edit.CPG
- -Guía completa de grabado e impresión: técnicas y materiales. John Dawson. Ed:Hermann Blume
- -Manual de diseño gráfico digital. de Maggie Gordon, Bob Gordon. Edit: Gustavo Gili,
- -Listo para imprenta "Cómo llevar los proyectos de la pantalla al papel" de Mark Gatter. Edit. Inex Book

"Nice To Meet You Again: Business cards, greeting cards and invitations Tapa blanda – 1 octubre

Editorial: Victionary; N.º 1 edición (1 octubre 2015)

Título: The Book Cover. Industrial Bookbinding Techniques

Autores: Rúben R. Dias, Rui Oliveira, Fábio Duarte Martins y Ricardo Philippe Dantas Editorial: 0.

itemzero + Grá ca Maia

Título: Nuevo diseño editorial Editorial: Hoaki Autor: Wang Shaoqiang Diseño: Sandu Publishin

Cómo hacer libros

Crea encuadernaciones únicas a base de plegar, cortar y coser Un libro de Esther K Smith

Editorial GGgdouro

Descripción técnica del libro:

Traducción: Darío Giménez Imir Diseño editorial

Periódicos y revistas / Medios impresos y digitales Un libro de Cath Caldwell, Yolanda Zappaterra

Diseño editorial

Editorial GG BESTSELLER

Artes finales: preimpresión e impresión. ARGP001PO Editorial : IC Editorial; N.º 1 edición (1 julio

2019)izaldu"



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## **TEMPORARY LEARNING ORGANIZATION** (Students with first registration): NUMBER OF **BLOCK CONTENT / TEACHING UNIT** PRESENTIAL SESSIONS 1. Presentation of the Subject. Teaching guide. Objectives. Normative. 2. History of printing systems 3. Graphic production. Theory and phases 1 4. Color in the prepress process 2 5. Final art and how to prepare documents for printing 4 6. The rasterization process. Resolution, halftone screens, angle... 2 7. Performing prepress exercises. 8 8. Printing materials and supports. Finished and handled. 2 9. Printing systems. 2 10. Final project. 5 1 11. Review of the subject. Conclusions. Learning.



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#### **ADDITIONAL INFORMATION:**

### Teaching of the subject in second and successive registrations:

There will be a specific group for students who are not first-time students and a teacher in charge of that group.

In this group there will be a number established by the UCV of monitoring and tutoring sessions (6 of 2 hours each) in which the work on the skills that the students of the group need to acquire to pass the subject will be reinforced.

TEMF	TEMPORAL ORGANIZATION OF LEARNING					
	CONTENT BLOCK/DIDACTIC UNIT	NUMBER OF PRESENTIAL SESSIONS				
1	Review of theoretical contents of UD. 1, 2,	1				
2	Review of theoretical contents of UD. 3	1				
3	Review of theoretical contents of UD. 4	1				
4	Review of theoretical contents of UD. 5	1				
5	Review of theoretical contents of UD. 6	1				
6	Review of theoretical contents of UD. 8,9	1				