



DRAWING 2

35508 - DRAWING 2 (2024-25)

General

Code: 35508

Lecturer responsible:

CARRASCO HORTAL, JOSE

Credits ECTS:

6,00

Theoretical credits:

0,00

Practical credits:

2,40

Distance-base hours:

3,60

Departments involved

- **Dept:** GRAPHIC EXPRESSION, COMPOSITION AND PROJECTS

Area: ARCHITECTURAL GRAPHIC EXPRESSION

Theoretical credits: 0

Practical credits: 2,4

This Dept. is responsible for the course.

This Dept. is responsible for the final mark record.

Study programmes where this course is taught

- [DEGREE IN FUNDAMENTALS OF ARCHITECTURE](#)

Course type: CORE (Year: 1)

Competencies and objectives

Course context for academic year 2024-25

The work is developed considering that representation techniques constitute a relevant instrument to explore and to convey knowledge, as well as the fact that ways of expression are related with the socio-cultural positioning of the student.

General Competences (CG)

- **CG.1** : Conèixer la història i les teories de l'arquitectura, així com les arts, tecnologies i ciències humanes relacionades amb aquesta.
- **CG.2** : Conèixer el paper de les belles arts com a factor que pot influir en la qualitat de la concepció arquitectònica.

Skills/Skills

- **CB 3** : Que els estudiants tinguin la capacitat de reunir i interpretar dades rellevants (normalment dins de la seua àrea d'estudi) per a emetre judicis que incloguen una reflexió sobre temes rellevants d'índole social, científica o ètica.
- **CB 4** : Que els estudiants puguen transmetre informació, idees, problemes i solucions a un públic especialitzat o no especialitzat.
- **CB 5** : Que els estudiants hagen desenvolupat les habilitats d'aprenentatge necessàries per a emprendre estudis posteriors amb un alt grau d'autonomia.

Inherent transversal

competences:>>Cognitive Instrumental

- **CT.14** : Habilitat per a l'elaboració del pensament abstracte. Habilitat per a construir conceptes genèrics a partir d'un coneixement empíric.
- **CT.15** : Habilitat per a la imaginació, la fantasia i la creativitat. Habilitat per a traduir situacions imaginatives o creatives a diagrames o mapes amb els quals interactuar. Capacitat per a entendre la lògica, els recursos i les possibilitats de la fantasia.
- **CT.16** : Habilitat per a manejar informació complexa. Capacitat per a operar en entorns complexos i a partir de situacions d'incertesa.

UA Basic Transversal Competences

- **CT.2** : Capacitat d'expressió. Capacitat d'exposició oral i escrita.
- **CT.3** : Capacitat de programar i fixar terminis. Capacitat de planificar treballs i comprometre's en el compliment d'objectius i terminis.
- **CT.4** : Capacitat de treball en grup. Capacitat d'èxit en treballs col·lectius i de grup, repartint treball i assumint rols.
- **CT.5** : Capacitat de fer front a situacions reals en arquitectura. Capacitat d'afrontar, projectar i resoldre problemes reals demanats per la societat en l'àmbit de l'arquitectura.
- **CT.6** : Capacitat d'adaptar-se a nous conceptes i mètodes. Capacitat d'aprendre i aplicar, autònomament i interdisciplinària, nous conceptes i mètodes.

Inherent transversal

competences:>>Methodological Instrumental

- **CT.19** : Habilitat per a localitzar i fixar objectius. Habilitat per a escollir procediments d'anàlisi, detectar singularitats i identificar situacions crítiques.

Inherent transversal

competences:>>Linguistic Instrumental

- **CT.24** : Habilitat per a elaborar i expressar idees i discursos propis. Habilitat per a generar registres que caracteritzen un llenguatge propi i diferenciat, fins i tot reciclant les maneres ja conegudes i fixant-ne noves.

Inherent transversal

Competences:>>Individual Interpersonal

- **CT.26** : Habilitat per a emprendre estratègies i processos d'aprenentatge autònoms. Capacitat de generar processos d'autoaprenentatge que, de manera autònoma, complementen l'aprenentatge reglat.

Specific Competences:>>Preparatory Block

- **CE.1T** : Aptitud per a aplicar els procediments gràfics a la representació d'espais i objectes.
- **CE.2T** : Aptitud per a concebre i representar els atributs visuals dels objectes i dominar la proporció i les tècniques del dibuix, incloses les informàtiques.
- **CE.6** : Coneixement adequat i aplicat a l'arquitectura i l'urbanisme de les tècniques d'alçament gràfic en totes les fases, des del dibuix d'anotacions fins a la restitució científica.

Exclusive skill taught in this course

No data

Learning outcomes (Training objectives)

No data

Specific objectives stated by the academic staff for academic year 2024-25

Dibujo 2 course's instrumental goal is to acquire skills in the graphic production for the knowledge and the communication of architecture, using digital tools in which coding and drawing criteria acquired in Dibujo 1 and Geometría are applied.

The cross-curricular objective of this course is to contribute to the cultural education that students acquire in the 1st year's second semester, based on the mode of selection, testing or development of a graphical procedure to solve a proposal or to explain a process initiated in other courses being followed during the same period.

Content and bibliography

Content for academic year 2024-25

Each theme introduces a shared theoretical base, which are then amplified using vector/raster resources (explained jointly) and differentiated examples chosen by each professor. The most significant contents are:

1. Digital drawing as a tool to produce architectural knowledge. Possible resources: basic organization of geometries; toolboxes; transition between 2D and 3D model spaces.
2. the 3D modelling with Autocad, Rhino Sketchup or other; basic resources with solids and surfaces.
3. Digital graphic codes. Architectural and extra-architectural drawings. Possible Resources: drawing scales and styles; chromatic and pattern codes; drawing of sensory perception.
4. Information organization and visualization levels. Complex use of layers, levels or tracks (on timelines).
- 5 Possible views from the 3D modelling: integrated, deployed, overlapping or sequenced (isometric, cavalier, military) and conic perspective. Possible resources: analog-digital hybridization.
- 6 Postproduction of the resulting images at the raster software (Photoshop or other) to reinforce the architectural expressivity: materiality; light conditions; inner and outer spaces.
7. Complex process drawing: dwelling modes/architecture and its uses/timeframe transformations, etc. Possible resources: the overlap of human actions; the overlap of atmospheric and temporal issues.

Each teacher can add secondary contents to the semester.

Related links

No data

Graphic anatomy 2 Atelier Bow-Wow

Author(s): Atorie Wan

Issue: Tokyo : Toto, 2014;

ISBN: 978-4-88706-340-2

Category: Complementario

House Genealogy Atelier Bow-wow : all 42 Houses

Author(s): Nishimaki, Atsuko

Issue: Tokyo : Shinkenchiku-Sha, 2012;

ISBN: 978-4-7869-0238-3

Category: Complementario

Pensado a mano : la arquitectura de Flores & Prats

Author(s): Adriá, Miguel

Issue: México : Arquine, 2014;

ISBN: 978-607-7784-74-6

Category: Complementario

Thought by hand : the architecture of Flores & Prats

Author(s): Adrià, Miquel

Issue: México : Arquine, 2015;

ISBN: 978-607-7784-75-3

Category: Complementario

Manual de mapeo colectivo: recursos cartográficos críticos para procesos territoriales de creación colaborativa

Author(s): Iconoclasistas

Issue: Tinta Limón : Buenos Aires, 2013;

ISBN: 978-987-27390-7-2

Category: Complementario

Pet architecture guide book

Author(s): ATELIER BOW-WOW

Issue: Tokyo Japón : World Photo Press, 2002;

ISBN: 978-4-8465-2327-5

Category: Complementario

Behaviorology

Author(s): ATORIE WAN

Issue: New York : Rizzoli, 2010;

ISBN: 978-0-8478-3306-1

Category: Complementario

Drawing and Reinventing Landscape

Author(s): BALMORI, Diana

Issue: Chichester : Wiley, 2014;

ISBN: 978-1-119-96702-6

Category: Complementario

Desde el Taller: diálogo entre Yves y John Berger con Emmanuel Favre

Author(s): BERGER, John; BERGER, Yves; FAVRE, Emmanuel

Issue: - : Gustavo Gili, 2015;

ISBN: 9788425227486

Category: Complementario

Technical Drawing

Author(s): BIELEFELD Bert; SKIBA, Isabella

Issue: Basel : Birkhauser, 2007;

ISBN: 978-3-7643-7644-4

Category: Básico

Colección duotono : archivo de ilustradores

Author(s): Arango, Andrés; García, Alejandro; Bojanini, Johana

Issue: Medellín : Mesaestandar, 2016;

ISBN: 9789585946712

Category: Complementario

Atelier Bow-wow - Echo Of Space/space Of Echo

Author(s): BOW-WOW, Atelier

Issue: - : LIXIL , 2016;

ISBN: 978-4864803106

Category: Complementario

Toulouse : Identité et partage du centre ville

Author(s): BUSQUETS, Joan

Issue: Portet-sur-Garonne : Loubatières , 2014;

ISBN: 978-2-86266-704-1

Category: Complementario

Evoking through design : contemporary moods in architecture

Author(s): Campo, Matias del

Issue: Oxford : John Wiley & Sons, 2016;

ISBN: 978-1-119-09958-1

Category: Complementario

Digital Drawing for Landscape Architecture: Contemporary Techniques and Tools for Digital Representation in Site Design, 2nd Edition

Author(s): CANTRELL, Bradley ; MICHAELS, Wes

Issue: Hoboken : Wiley, 2015;

ISBN: 978-1-118-69318-6

Category: Complementario

Architectural Graphics

Author(s): CHING, Frank

Issue: Hoboken : Wiley, 2015;

ISBN: 978-1-119-07338-3

Category: Complementario

Drawing: The Motive Force of Architecture

Author(s): COOK, Sir Peter

Issue: Chichester : Wiley, 2014;

ISBN: 978-1-118-70064-8

Category: Complementario

**Senses and the city : an interdisciplinary approach to urban
sensescapes**

Author(s): DIACONU, Mădălina

Issue: Wien : Lit, 2011;

ISBN: 978-3-643-50248-3

Category: Complementario

**Project, two summer houses : architect, Arne Henriksen
Arkitekter**

Author(s): ELLEFSEN, Karl Otto

Issue: Oslo : Pax, 2011;

ISBN: 978-82-530-3369-3

Category: Complementario

Atelier Bow-Wow : a Primer

Author(s): Washida, Meruro

Issue: Cologne : Buchhandlung Walther König, 2013;

ISBN: 978-3-86335-302-5

Category: Complementario

Curso de Autocad para Arquitectos : planos, presentaciones y trabajo en equipo

Author(s): ESTEBAN, Inmaculada ; VALDERRAMA, Fernando

Issue: - : Reverté, 2007;

ISBN: 978-84-291-2113-1

Category: Complementario

Cartographies of time

Author(s): Grafton, Anthony

Issue: New York : Princeton Architectural Press , 2010;

ISBN: 978-1-56898-763-7

Category: Complementario

Creativity and cultural improvisation

Author(s): HALLAM, Elizabeth ; INGOLD, Tim

Issue: Oxford : Berg, 2007, 2007;

ISBN: 978-1-84520-527-0

Category: Complementario

Project Asker Mortuary and Crematorium : architect: Carl-Viggo Hølmebakk

Author(s): HOLMEBAKK, Carl-Viggo ; BRAATHEN, Martin

Issue: Oslo : Pax, 2012;

ISBN: 978-82-530-3568-0

Category: Complementario

Drawing architecture and the urban

Author(s): Jacoby, Sam

Issue: Chichester : Wiley, 2016;

ISBN: 1-118-87947-3 (libro e.)

Category: Complementario

Farm House : Architect: Jarmund/Vignsnes Architects

Author(s): Jensen, Jan Olav

Issue: Oslo : Pax, 2011;

ISBN: 9788253033709

Category: Complementario

Fundamentals : International Architecture Exhibition La Biennale di Venezia (14^a. 2012. Venezia)

Author(s): KOOLHAAS, Rem

Issue: Venice : Marsilio, 2014;

ISBN: 978-88-317-1869-1

Category: Complementario

Elements of Architecture

Author(s): KOOLHAAS, Rem

Issue: Venezia : Marsilio, 2014;

ISBN: 978-88-317-2018-2

Category: Complementario

Basics CAO DAO

Author(s): KREB, Jan

Issue: - : Birkhauser, 2007;

ISBN: 978-3-7643-8108-0

Category: Básico

Drawing parallels : knowledge production in axonometric, isometric and oblique drawings

Author(s): LUCAS, Raymond

Issue: Abingdon : Routledge, 2019;

ISBN: 978-1-4724-1283-6

Category: Complementario

Levantamiento de planos de fachadas a partir de una fotografía: perspectivas: homograf.1

Author(s): Maestre López-Salazar, Ramón , Irlas Mas, Francisco

Issue: Alicante : Universidad de Alicante, 2000;

ISBN: 84-7908-545-2

Category: Básico

Aplicaciones informáticas en arquitectura

Author(s): Monedero Isorna, Javier

Issue: Barcelona : UPC, 2000;

ISBN: 84-8301-328-2

Category: Básico

In praise of mud : a guide to the earth walls of Kyoto

Author(s): MORITA, K. ; TSUKAMOTO, Y.

Issue: Kyoto : Gakugei Shuppansha, 2012;

ISBN: 978-4-7615-1303-0

Category: Complementario

La digitalización toma el mando

Author(s): ORTEGA, Lluís (ed.)

Issue: Barcelona : Gustavo Gili, 2009;

ISBN: 978-84-252-2275-7

Category: Básico

The city out my window : 63 views on New York

Author(s): PERICOLI, Matteo

Issue: New York : Simon & Schuster , 2009;

ISBN: 978-1-4165-6990-9

Category: Complementario

**Project, house Kollstrøm-Østberg : architect, Knut Hjeltnes as
Sivilarkitekter**

Author(s): SKODVIN, Børre

Issue: Oslo : Pax, 2010;

ISBN: 978-82-530-3329-7

Category: Complementario

Bow-Wow from post bubble city

Author(s): Atorie Wan

Issue: Tokyo : Inax, 2006;

ISBN: 978-4872751338

Category: Complementario

WindowScape 2

Author(s): Tsukamoto Yoshiharu

Issue: Tokyo : Film Art , 2014;

ISBN: 978-4-8459-1322-0

Category: Complementario

**Drawing the Landscape : the art of hand drawing and digital
representation**

Author(s): SULLIVAN, Chip

Issue: Hoboken : Wiley, 2014;

ISBN: 978-1-118-45481-7

Category: Complementario

Envisioning Information

Author(s): TUFTE, Edward R.

Issue: Cheshire : Graphics Press, 2006;

ISBN: 978-0-9613921-1-6

Category: Básico

Beautiful evidence

Author(s): TUFTE, Edward R.

Issue: Cheshire : Graphics Press, 2006;

ISBN: 978-0-9613921-7-8

Category: Complementario

Project, Sørum farm : architect, Are Vesterlid

Author(s): Pedersen, Ragnar

Issue: Oslo : Pax, 2016;

ISBN: 978-82-530-3910-7

Category: Complementario

Saishu kogi = Retrospective

Author(s): Kon, Wajiro

Issue: Kyoto-shi : Kabushiki Kaisha Seigensha, 2012;

ISBN: 978-4-8615-2322-9

Category: Complementario

Project, V-House : architect, Space Group

Author(s): Weinstock, Michael

Issue: Oslo : Pax, 2011;

ISBN: 978-82-530-3367-9

Category: Complementario

Project, Villa Engen : architect, Are Vesterlid

Author(s): Berre, Nina

Issue: Oslo : Pax, 2014;

ISBN: 978-82-530-3684-7

Category: Complementario

Project: Villa Schreiner, architect: Sverre Fehn

Author(s): Hvattum, Mari

Issue: Oslo : Pax, 2014;

ISBN: 978-82-530-3683-0

Category: Complementario

Project, summer house Storfjord : architect Jensen & Skodvin

Author(s): Thorlby, Anthony

Issue: Oslo : Pax, 2014;

ISBN: 978-82-530-3775-2

Category: Complementario

Fabricar historias

Author(s): WARE, Chris

Issue: Barcelona : Penguin Random House, 2014;

ISBN: 978-84-397-2816-0

Category: Complementario

WindowScape3 : mado no shigotogaku

Author(s): Daigaku, Tky Kgy

Issue: Tky : Filmart, 2017;

ISBN: 978-4-8459-1611-5

Category: Complementario

WindowScape : Window behaviorology

Author(s): TSUKAMOTO, Yoshiharu

Issue: Tokyo : Firumatosha, 2011;

ISBN: 9784845910588

Category: Complementario

Assessment

Assessment procedures and criteria 2024-25

Assessment will be continuous; class attendance, mandatory; and will be implemented working on the proposed assignments throughout the semester assessed by the teaching staff.

To achieve the required level of the course it will be necessary the completion of all the assignments, achieving an overall sufficient level, as it will also be expected in the Final Exam.

The final exam C3 will be mandatory for all students. minimum qualification in the exam: 3.5

For the extraordinary C4, course assignments (practices) are taken into account (50%)

Description	Criteria	Type	Weighting system
C3 progressive practices	CAD and raster definitions starting from 2D diedric, 3D and/or axonometric views of a selected study case, with common valuation criteria for architectural representation.	ACTIVITIES OF EVALUATION DURING THE SEMESTER	80
C3 practical and theoretical Exam	CAD and raster definition of diedric and/or axonometric view, with valuation criteria referred to quality ones established for previous practices. written answer to theoretical questions.	FINAL TEST	20

Official exam dates for academic year 2024-25

Exam session	Date	Time	Group - Classroom(s) allocated	Comments
(C3) Periodo ordinario para asignaturas de segundo semestre y anuales	09/06/2025			Teoría
(C4) Pruebas extraordinarias para asignaturas de grado y máster	08/07/2025			Teoría

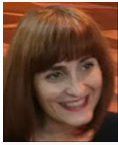
Academic staff



CARRASCO HORTAL, JOSE

Lecturer responsible

COMPUTER PRACTICALS: Groups: 1 , 3



CARBONELL SEGARRA, MARIA MERCEDES

COMPUTER PRACTICALS: Groups: 5



MAESTRE LOPEZ-SALAZAR, RAMON

COMPUTER PRACTICALS: Groups: 2 , 4

Groups

COMPUTER PRACTICALS

Group	Semester	Morning or afternoon session	Language	No. of enrolled students	
Gr. 1 (COMPUTER PRACTICALS) : 1 (ARA)	2S	Morning	English	27	■ Allowed DEGREE IN FUNDAMENTALS OF ARCHITECTURE
Gr. 2 (COMPUTER PRACTICALS) : 2	2S	Morning	Spanish	35	
Gr. 3 (COMPUTER PRACTICALS) : 3	2S	Morning	Spanish	36	
Gr. 4 (COMPUTER PRACTICALS) : 4	2S	Morning	Spanish	38	
Gr. 5 (COMPUTER PRACTICALS) : 5	2S	Afternoon	Spanish	36	

COMPUTER PRACTICALS

Group	Start date	End date	Day	Start time	End time	Lecture room
1	27/01/2025	23/05/2025	JUE	09:00	13:00	0039PS017 
2	27/01/2025	23/05/2025	MIE	09:00	13:00	0039PS017 
3	27/01/2025	23/05/2025	LUN	09:00	13:00	0039PS017 
4	27/01/2025	23/05/2025	LUN	09:00	13:00	EP/S-02M 
5	27/01/2025	23/05/2025	MIE	16:00	20:00	0039PS017 