

Teaching guide

IDENTIFICATION DATA

Title:	Bachelor of Fine Arts		
Knowledge Branch:	Social and Legal Sciences		
Faculty / School:	communication Sciences		
Subject:	Shape and Space Analysis Systems		
Guy:	Mandatory	ECTS credits:	6
Course:	1	Code:	2608
Teaching period:	Second semester		
Matter:	Spatial Representation Codes		
Module:	Basic Principles for the Configuration of the Artistic Work		
Type of teaching:	Face-to-face		
Idiom:	Castilian		

Total hours of student dedication: 150

Teaching team

Email

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COURSE DESCRIPTION

Technical Drawing, and geometric analysis systems of form and representation emerge in culture universal as an indispensable means of expression and communication, both for the development of research on shapes, such as for graphic understanding of technology sketches and projects, and artistic, whose ultimate purpose is the creation of products that may have a utilitarian, artistic value, or both to the time. The essential function of these projects is to help formalize or visualize what is being designed or creating and helping to provide, from the first realization of possible solutions, to the last phase development where the results are presented in definitively finished drawings.

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The development of the subject is conceived based on the learning of the various representation methods two-dimensional technique, always focused on the plastic work of the student who must demonstrate said knowledge in a process of continuous evaluation.

OBJECTIVE

To offer a first approach to the study of technical drawing and representation systems, for the realization of his personal work as a creator, as well as for the correct graphic representation of ideas in your design projects.

The specific purposes of the subject are:

- 1-Apply knowledge of representation systems to personal artistic projects
- 2-Know the standardized systems
- 3-Explain the normalized paths
- 4-Present the representation systems
- 5-Encourage the application of technical drawing to own projects

PRIOR KNOWLEDGE

No prior knowledge is necessary

CONTENTS

MODULE I PLANE GEOMETRY: METRIC AND PROJECTIVE

1- METRIC GEOMETRY

1.1 Fundamental traces in the plane.

Parallel.

Perpendicular.

Mediatrices.

Angles

Bisectors.

Operations with angles and segments.

Angles on the circumference.

1.2 Polygons.

Triangles

Quadrilaterals.

General polygon construction methods.

1.3 Proportionality and similarity, scales.

Definition and Classification

Graphic Preparation of Scales

1.4 Equivalent Figures.

Definition and Properties

1.5 Geometric transformations.

Translation.

Turn.

Symmetry.

2- PROJECTIVE GEOMETRY

2.1 The Geometric Shapes.

Figures.

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Elements.

Shapes.

Perspectivity and projectivity.

2.2 Homography and Homology.

Concept and application.

2.3 Definitions and drawing of Plane Curves.

Conics (circumference, ellipse, hyperbola and parabola).

Fundamental Technical Curves (ovals, ovoids, spirals, helices).

MODULE II. DESCRIPTIVE GEOMETRY (SYSTEMS OF REPRESENTATION)

1- The Projection

The perspective representation in the History of Art (origins).
 Typology: orthogonal, conical, cylindrical.
 Fundamentals of representation systems, basic characteristics.
 Optimal use of representation systems.
 Bounded Drawings.
 Conical System.

2-Orthogonal Dihedral System Fundamentals.
 Representation of point, line and plane; their most common relationships and transformations.
 Methods: abatement, rotation and change of plane. Parallelism and perpendicularity. Intersections and distances.
 True magnitudes. Representation of polyhedral and revolution surfaces.

3-Axonometric System
 Fundamentals.
 Classification: Isometric, Symmetric, Trimetric.
 Graphic Scales.
 The shadows.

4-Conical System (Perspective)
 Fundamentals.
 The cone of human vision.
 Metric Points.
 Parallel perspective.

FORMATION ACTIVITIES

An expository methodology will be combined by the teacher and the students for the explanation of the theoretical or practical aspects of the activities, projects or work carried out, relying on the use of the blackboard, computer-based presentations, practical classes in computer labs. Will be proposed seminars with the aim that students acquire specific knowledge related to the spatial representation.

In the virtual campus, the student will have readings, activities and images that contribute to the preparation Of the matter. The teacher will guide all scheduled activities in face-to-face or virtual tutorials. In addition, the visit to artistic exhibitions related to the module will be proposed.

Students acquire the theoretical knowledge necessary to be able to effectively materialize a spatial representation. They demonstrate the development of their skills with the mastery of codes and techniques of spatial representation, carrying out exercises of different difficulty until reaching the required level.

The student knows the testimony of professionals, by attending conferences, talks and tables round, to be held, both at the University and in prestigious cultural institutions. On them, the student will be able to raise their doubts and problems related to creativity and its materialization, thus how to check in the exposed work of consecrated artists the importance of the domain of the procedures, all this being reflected in the corresponding work or study that each student must perform, forming part of the elements to be evaluated by the teacher.

Through tutorials, the teacher monitors and consolidates knowledge and strategies related to artistic representation, taking into account the character of each student, and their expectations future in the workplace.

The student must demonstrate the acquisition of theoretical knowledge, as well as technical skills, that will train in the task of successfully originating a spatial domain, both through theoretical-practical tests, as well as by continuously evaluating your proposals.

The training activities, as well as the distribution of working times, may be modified and adapted according to the different scenarios established following the indications of the authorities sanitary.

DISTRIBUTION OF WORKING TIMES

PRESENIAL ACTIVITY	SELF-EMPLOYED / ACTIVITY NO PRESENIAL
60 hours	90 hours

COMPETENCES

Basic skills

That students have demonstrated possessing and understanding knowledge in an area of study that is part of the base of general secondary education, and is usually found at a level that, although supported by textbooks advanced, also includes some aspects that involve knowledge from the forefront of your field of study

That students know how to apply their knowledge to their work or vocation in a professional way and possess the competencies that are usually demonstrated through the elaboration and defense of arguments and the resolution of problems within your study area

That students have the ability to gather and interpret relevant data (usually within their area study) to make judgments that include a reflection on relevant issues of a social, scientific or ethical nature

That students can transmit information, ideas, problems and solutions to an audience as much specialized as well as non-specialized

That students have developed those learning skills necessary to undertake studies posterior with a high degree of autonomy

General competences

The student will be able to work as an autonomous and self-sufficient visual artist in creative practice and in the exhibition of the work with the broadest possible knowledge of the means of artistic expression.

The student will be able to expand and deepen the knowledge of the artistic field from learning of the development of formative, didactic, theoretical and experimental processes.

The student will be able to conceive, plan, carry out, organize, manage and mediate visual information.

The student will be able to be an intellectually curious professional, who rejects weak thinking, and who aspire to improve contemporary culture by transmitting values based on the search for truth, good and the beauty.

Insert yourself as a new creator in the professional world and develop artistic works, programs and artifacts for its production and presentation in all kinds of formats and cultural spaces.

Specific skills

Acquire the ability to identify and understand the problems of art.

Acquire the ability to creatively and imaginatively interpret artistic problems.

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Acquire the ability to produce and relate ideas.

Acquire the capacity for curiosity and surprise beyond practical perception.

Know the vocabulary, codes, and concepts inherent to the artistic field.

LEARNING OUTCOMES

The student makes technical drawings to represent spatial perspectives

The student masters the realization of geometric traces

The student knows the language of representation systems and uses it in the artistic field

The student implements the knowledge of standardized drawings to face his artistic projects.

The student makes images in which correct spatial perspectives are represented.

LEARNING ASSESSMENT SYSTEM

The evaluation will be continuous and the final grade will be the result of numerically weighting a series of Individual qualifications with others obtained through group work:

- The written test in which the student must answer questions of a theoretical-practical nature on the subject. The student must pass this test to access the continuous evaluation of the rest of the deliveries.
- The daily activities proposed to strengthen the contents developed throughout the semester and delve into them.
- The group work proposed, in which compliance with the guidelines established for elaborate them, the rigor and coherence of the contents, the creativity with which it is approached and the careful writing.
- Attendance, participation and expressed attitude.

1.Theoretical-practical answer test-exam (theoretical mastery of the theoretical contents): 45% of the final grade (must be approved).

2.Resolution of exercises (carried out in workshops, studies and laboratories): 45% of the final grade (they must deliver all)

3. Observation technique. Active participation and attitude towards the subject (attendance, participation in tutorials, visits and group work): 10% of the final grade. The teacher will check regularly, both the participation as the student's interest in the content covered in the subject.

* Extraordinary call: 50% Exam (technical drawing test, must be approved) + 50% (portfolio workshop exercises). Students who have not passed the subject in the first call must submit all the projects required during the course, with the same degree of demand as in the ordinary call, in the examination of extraordinary summons.

ALTERNATIVE ASSESSMENT SYSTEM:

In the event that health recommendations force us to return to a scenario where teaching has to be taught exclusively remotely, the percentages will be maintained, adjusting the exercise weights concrete if necessary.

Some of the exercises or practices may be simplified or some may be substituted for a more appropriate one. The EXAMS will be carried out in person.

It is the student's responsibility to contact the professor of the subject to know the guidelines regarding the final evaluation.

REPEATING STUDENTS: They will carry out all pending or suspended tasks from previous calls.

MINIMUM REQUIREMENTS TO PASS THE SUBJECT:

The same as in the ordinary system.

ADDITIONAL INFORMATION

The assignments and exercises must be delivered on the date and time.

Plagiarism behaviors, as well as the use of illegitimate means in the evaluation tests, will be sanctioned in accordance with those established in the University's Assessment Regulations and Coexistence Regulations.

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Matriculation of Honor Award: The Matriculation of Honor is a recognition of excellence. Will be granted exclusively to those students who stand out above their peers, not only with respect to their academic results within the subject, but also with respect to their attitude and interest in studying and the subject, their commitment, teamwork throughout the course, only one will be awarded for every 20 students or fraction and it is not mandatory to grant it, and it may be deserted.

BIBLIOGRAPHY AND OTHER RESOURCES

Basic

Navarro de Zuñiga, Fundamentals of Perspective. Parramón. 1986

Ruiz Aizpiri, JM, Descriptive Geometry, De Latina, 1980

Izquierdo Asensi, F. Descriptive Geometry Exercises. 4 vols. Dossat, 1988

