SUBJECT DESCRIPTION

MODELO

PED.013.03

Course	Equipment Design					
Subject	Maquette development					
Academic year	2023-2024	Curricular year	**1st**	Study period	**2nd**	
Type of subject	Compulsory	Student workload (H)	Total: 140	Contact: 60	ECTS	5
Professor(s)	Paulo Costa					

☒ Area/Group Coordinator ☐ Head of Department	(select)	José Reinas dos Santos André

PLANNED SUBJECT DESCRIPTION

1. LEARNING OBJECTIVES

It is intended that students can reproduce models of objects or prototypes through the selection of materials and construction techniques to reproduce as closely as possible to reality the object in question.

2. PROGRAMME

Representation scales. Conventional scale two-dimensional representation. Design scales with territorial areas, roads or urban with the presence of landforms and volumes of buildings. Architectural scales for urban projects. Detail scales for partial models, interiors, environments or furniture.

The choice of materials. Its expressive meaning. Disciplinary appreciation of the typologies of the project, its expressive content and its destination. Economic, time and technical accessibility exclusion possibilities to adopt.

Instruments and tools. Vinyl adhesives, solvent, spray and cianídrics. The use of chloroform to collages. Scissors, rulers, metal brackets, styluses and all kinds of tools to make models without machines.

Various finishes. Coatings, outdoor decks, vegetation and the representation of water. Linear and point elements.

Colors. Application of colored leaves, sprays and plastic paints. Different acrylic and aqueous inks for use with spray guns. The effects of aging on various surfaces and textures. Painting plastics, metals, wood and other materials.

3. COHERENCE BETWEEN PROGRAMME AND OBJECTIVES

Taking into account that the main objective of the subject is learning how to build models, the presented syllabus contemplates this.

4. MAIN BIBLIOGRAPHY

Several notes provided by the teacher.

Lorenzo Consalez. (2001). Maquetes, A Representação do Espaço no Projecto Arquitetônico. Editorial Gustavo Gili, SA

Nacca Regina. (2007). Maquetes e Miniaturas – Técnicas de Montagem passo a passo. Giz Editorial

5. TEACHING METHODOLOGIES (INCLUDING EVALUATION)

The teaching methodology to follow consists of practical demonstrations on the construction of models. Students will use different materials and techniques in order to create models and prototypes. There will be no exam or appeal period.

After learning the basic building processes, the students perform an individual project:

1- Knowledge, skills and attitudes (20%)
2- Construction of the object defined in design, quality of construction / intent (80%)

All work must be carried out in the classroom. There will be no exam or appeal period due to the specific characteristics of the curricular unit. Student workers will be able to carry out work at ESTG facilities outside of class hours. All students will have to present the work developed during the semester on the last day of classes.

Finalist students will have one month from the date of the exam to develop the work proposed by the uc teacher. It will be held at ESTG's facilities during free time for later presentation.

6. COHERENCE BETWEEN TEACHING METHODOLOGIES AND OBJECTIVES

Students will have theoretical lessons and mockups/prototypes building practices in the classroom in order to acquire the knowledge necessary to implement the final project.

7. ATTENDANCE

Students do not have an attendance regime. The work must be carried out at IPG's facilities and delivered within the established deadlines. Students can access the

workroom outside of class hours if they need to, to complete any pending stage of work. However, continuity in the preparation of work is assessed.

8. CONTACTS AND OFFICE HOURS

Gab. 3; pccosta@ipg.pt; contact hours – Thursday 17.30-19.30

DATE

24 de fevereiro de 2024

SIGNATURES

Professor(s), Area/Group Coordinator or Head of Department signatures

Professor

(signature)

Assinatura na qualidade de (clicar)

(signature)

Assinatura na qualidade de (clicar)

(signature)

Assinatura na qualidade de (clicar)

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