Teaching guide

IDENTIFICATION DETAILS

Degree:	Architecture
Scope	Architecture, construction, building and urban planning, and civil engineering
Faculty/School:	Higher Polytechnic School
Course:	END-OF-DEGREE PROJECT
Type:	Degree Project
ECTS credits:	30
Year:	6
Code:	3758
Teaching period:	semester
Subject:	End of Career Project
Module:	End of Degree Project
Teaching type:	Classroom-based
Language:	Spanish
Total number of student study hours:	750

SUBJECT DESCRIPTION

The student will carry out an exercise that will consist of a comprehensive architectural project of a professional nature in which all the competencies acquired in the career are summarized, developed to the point of demonstrating sufficiency to determine the complete execution of the building works to be carried out, in compliance with applicable technical and administrative regulations. To this end, the project tutor will ensure the suitability and architectural quality of the exercise that the student will have to solve as if it were a real project, as well as to guide him to the type of technical resources he should include for his resolution. Finally, he will make his presentation and defense before a university court that must include at least one professional of recognized prestige proposed by professional organizations.

GOAL

The fundamental objective of the course is to ensure that the student completes a process of synthesis and integration of the knowledge acquired during the career until they achieve the necessary capacity to manage the process required by an architectural project in their professional practice.

In this final stage of the career, special care should be taken of the professional competence referred to in the University's Ideology of Architecture: “The first, most important, and indispensable requirement of the architect is that of professional competence. As a technician, you must know your science and the laws that regulate it in order to be able to offer at all times the most appropriate, feasible and efficient solutions to the problems that your clients pose to you. The artistic component of Architecture should never be an obstacle to its correct, reliable and durable physical execution, but rather a challenge to overcome it. Therefore, the study can no longer be aimed at “passing”, or even at simply “learning” but rather at preparing for a “competent professional practice”. This is why it is necessary for students to approach their training in a self-demanding and committed way, understanding the usefulness and transcendence of what they study”.
The ultimate goal of any architectural project is to contribute to the common good, generating living spaces or making improvements to existing ones, so that they are sustainably adjusted to the integral needs of man.

The specific aims of the subject are:

Resolution of the Final Degree Project from the discipline of Urbanism, solving urban and public space problems.

Research on issues addressed in the PFG that results in a scientific essay on architecture

Architectural resolution of one or more buildings, their program and their spatial, material and formal qualities.

From the point of view of structures, solve the proposed buildings at a general level and develop the most complex part at the level of detail.

Construction development of the proposed buildings, from the construction systems to the detail.

Development of building facilities, choosing the appropriate systems in each area of them and developing in detail some unique aspect.

PRIOR KNOWLEDGE

It is advisable to have passed the rest of the subjects of the degree.
It is advisable to have passed Projects VI. The Final Degree Project is the continuation and deepening of the 5th year exercise.
It is advisable to have passed the 5th grade Urban Planning Project. The PFG is a continuation and deepening of the exercise carried out in the 5th year.

COURSE SYLLABUS

The Final Degree Project is structured as a workshop. The teaching staff proposes a generic framework, in a city taken as a 'case study', each academic year. Within this area, the student is free to choose the urban strategy, the

program, the place where it is located and the theoretical aspect they want to investigate. Therefore, the syllabus of the Final Degree Project Workshop focuses on the processes of the Architectural Project.

The syllabus develops the tools and concepts that students must work with in each individual exercise:

1. TOOLS:
1.1. Situation plans and urban diagrams
1.2. Shape/volumetry
1.3. Plants/sections
1.4. Diagrams
1.5. Spatial images
1.6. Texts

2. CONCEPTS:
2.1. Research and theory in the project
2.2. Urban strategies
2.3. Space and program
2.4. Materiality
2.5. The structure in the project
2.6. Construction and technique
2.7. The facilities in the project

EDUCATION ACTIVITIES

The fundamental feature of the subject is that it is developed in a WORKSHOP format, a classroom where students work continuously and where they receive teaching from tutors in each area of knowledge. 'Architectural

Projects' is the generic and most important framework in the PFG. It is also responsible for coordinating other specialties. There are 6 areas of knowledge integrated into the PFG:

A. Projects
B. Theoretical research
C. Urbanism
D. Structures
E. Construction
F. Facilities

All of them will have the same methodology in different time slots and in the same classroom.

1. FACE-TO-FACE OR SYNCHRONOUS REMOTE ACTIVITIES.

1.1. Expository classes: Presentation of content and activities by the teacher, commentary, recommended reading, and with student participation in the debate and resolution of doubts about the topics proposed in class
1.2. Project Workshop: Correction in groups of different sizes of the projects that students carry out in the classroom or at home, and they clarify in the light of the exercises of their classmates and the instructions of their teachers.
1.3. Periodic deliveries: Periodic deliveries are made that help to secure the project in a balanced and relaxed manner. Coinciding with these deliveries, public exhibitions of the work done are held.
1.4. Personalized tutoring: Individual attention to the student with the objective of reviewing and discussing the topics presented in class and clarifying doubts that the student cannot understand in their personal study.
1.5. Specific complementary activities: Guided tour to specific exhibitions or projects, attendance at events with unique activities, or conferences by occasional guests depending on the topic to be developed.

2. NON-FACE-TO-FACE ACTIVITIES

2.1. Theoretical and practical study: Study of the theoretical and practical contents of the program and preparation of recommended readings. Participation in online discussion forums.
2.2. Preparation of projects for discussion in class: Design and know how to explain the project by applying the knowledge acquired. Online upload of what has been worked through the proposed tasks.

DISTRIBUTION OF WORK TIME

TEACHER-LED TRAINING ACTIVITIES	INDIVIDUAL WORK
300 Horas	450 Horas

SKILLS

Basic Skills

Students must have demonstrated knowledge and understanding in an area of study that is founded on general secondary education. Moreover, the area of study is typically at a level that includes certain aspects implying knowledge at the forefront of its field of study, albeit supported by advanced textbooks

Students must be able to apply their knowledge to their work or vocation in a professional manner and possess skills that can typically be demonstrated by coming up with and sustaining arguments and solving problems within their field of study.

Students must have the ability to gather and interpret relevant data (usually within their field of study) in order to make judgments that include reflections on pertinent social, scientific or ethical issues

Students must be able to convey information, ideas, problems and solutions to both an expert and non-expert audience

Students must have developed the learning skills needed to undertake further study with a high degree of independence

Capacity for analytical, synthetic, reflective, critical, theoretical and practical thought.

Capacity for oral and written expression.

Ability to solve problems and to take decisions.

Ability to apply procedures.

Capacity for interpersonal communication.

Aptitude to create architectural projects that meet both aesthetic and technical requirements.

An adequate knowledge of urban development, planning and techniques applied to the planning process.

Ability to understand the relationships between people and buildings and between buildings and their surroundings, and the need to associate buildings and the spaces in between them to meet human needs and on a human scale.

Ability to appreciate the architect's profession and its function in society, particularly with regard to the design of projects that involve social factors.

Knowledge of research methods and those pertaining to the preparation of construction projects.

An understanding of the problems involved in structural design, construction and engineering associated with building projects.

An adequate knowledge of the physical and various technological problems that may exist, and those pertaining to the function of buildings, with a view to providing them with internal conditions of comfort and of protection from adverse climatic factors.

Ability to design in order to meet the requirements of the building ¿s users while observing the limits imposed by budgetary factors and building regulations.

An adequate knowledge of industries, organizations, regulations and procedures required in order to turn projects into buildings and to integrate blueprints into planning.

General Skills

Capacity for analytical, synthetic, reflective, critical, theoretical and practical thought.

Capacity for oral and written expression.

Ability to solve problems and to take decisions.

Ability to apply procedures.

Capacity for interpersonal communication.

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Specific skills

Ability to present an original exercise carried out individually and defend it before a university court that must include at least one professional of recognized prestige proposed by professional organizations.

Ability to summarize all the competencies acquired in the career, developed to the point of demonstrating sufficiency to determine the complete execution of the building works on which to be viewed, in compliance with applicable technical and administrative regulations.

Capacity to develop urban and territorial planning and building management from the perspective of Universal Accessibility and Design for All

Ability to introduce Universal Accessibility and Design for All as cross-cutting elements in the development of the building project

LEARNING RESULTS

The student performs an original exercise carried out individually and defends it before a university court with a professional outside the Francisco de Vitoria University.

The student synthesizes in an original and own exercise all the competencies acquired in the career, demonstrating through the exercise their competence in the complete execution of building and urban planning works.

Development of an urban planning management protocol

Development of an accessible building project

LEARNING APPRAISAL SYSTEM

The Final Degree (PFG) project is evaluated by a court of at least 3 members. One of them will be a professional of recognized prestige outside the Francisco de Vitoria University. None of the members of the court may be a guardian of the PFG.
1. CRITERIA TO BE ABLE TO SUBMIT THE FINAL DEGREE PROJECT TO THE COURT
1.1. The student will attend 80% of the classes of the PFG Workshop (either in person or online in synchronous calls).
1.2. The student will complete the delivery-milestones marked in the annual calendar.
1.3. The student will receive a minimum of 5 project tutorials and 3 tutorials for other areas of knowledge.
1.4. The student must receive the certificate from each and every one of their tutors in order to submit their exercise to the court. Once the student is eligible by all the tutors (they will decide collectively) and the court, the former will evaluate the students through a rubric established and known at the beginning of the PFG Workshop that is incorporated into the online documentation of the workshop.
2. EVALUATION CRITERIA
2.1. Before the public presentation of the Final Degree Projects, with the graphic and written documentation provided in each exercise, the court will decide which Final Degree Projects are considered eligible and those that are not suitable.
2.2. Students with a Final Degree Project considered unsuitable by the court will receive a report explaining the aspects to be improved so that the exercise is considered suitable in the next call.
2.3. The tutors will evaluate suitable students through specific rubrics in each area. The tutors' grade is 1/3 of the final grade.
2.4. Students with a Final Degree Project considered suitable by the Court will be evaluated through a public exhibition and graphic, written and model documentation. The court's score is 2/3 of the final grade. The court shall use for its deliberation the notes established by the guardians.
3. CALLS In each academic year there are two calls: ORDINARY and EXTRAORDINARY. In both calls, the evaluation process is identical to that described above. Enrollment entitles you to use these two annual calls. In the extraordinary call, the student's work will be carried out autonomously, with the supervision of their tutors through 3 project tutoring and 1 tutoring of the rest of the areas of knowledge. To be entitled to these tutorials, it will be mandatory that you have attended the Workshop and fulfilled the requirements to pass the ordinary call (set out above).
4. VALIDITY TIME OF THE PFG TOPIC. The validity period of the PFG topic will be two academic years with their ordinary and extraordinary calls. If in the second course you do not pass or do not submit, you will have to change the subject in the PFG exercise. NOTE: Plagiarism, as well as the use of illegitimate means in evaluation tests, will be sanctioned in accordance with the university's Evaluation Regulations and Coexistence Regulations.

ETHICAL AND RESPONSIBLE USE OF ARTIFICIAL INTELLIGENCE

1.- The use of any Artificial Intelligence (AI) system or service shall be determined by the lecturer, and may only be used in the manner and under the conditions indicated by them. In all cases, its use must comply with the following principles:
a) The use of AI systems or services must be accompanied by critical reflection on the part of the student regarding their impact and/or limitations in the development of the assigned task or project.
b) The selection of AI systems or services must be justified, explaining their advantages over other tools or methods of obtaining information. The chosen model and the version of AI used must be described in as much detail as possible.
c) The student must appropriately cite the use of AI systems or services, specifying the parts of the work where they were used and describing the creative process followed. The use of citation formats and usage examples may be consulted on the Library website(https://www.ufv.es/gestion-de-la-informacion_biblioteca/).
d) The results obtained through AI systems or services must always be verified. As the author, the student is responsible for their work and for the legitimacy of the sources used.
2.- In all cases, the use of AI systems or services must always respect the principles of responsible and ethical use upheld by the university, as outlined in the Guide for the Responsible Use of Artificial Intelligence in Studies at UFV. Additionally, the lecturer may request other types of individual commitments from the student when deemed

necessary.
3.- Without prejudice to the above, in cases of doubt regarding the ethical and responsible use of any AI system or service, the lecturer may require an oral presentation of any assignment or partial submission. This oral evaluation shall take precedence over any other form of assessment outlined in the Teaching Guide. In this oral defense, the student must demonstrate knowledge of the subject, justify their decisions, and explain the development of their work.

BIBLIOGRAPHY AND OTHER RESOURCES

Basic

AA.VV “Ecological Urbanism” Ed.Mohsen Mostafavi with Gareth Doherty, Harvard Graduated School, Lars Müller Publishers, Baden, 2011

PALLASMAA, JUHANI The Eyes of the Skin.Architecture and the Senses Ed.Gustavo Gili, Barcelona, 2006 (PALLASMAA, JUHANI The Eyes of the Skin.Architecture and the Senses Ed.Gustavo Gili, Barcelona, 2006 , ||ZUMTHOR, PETER Thinking Architecture Ed.Gustavo Gili, Barcelona, 2006)

AA.VV. El Croquis Magazine, architecture magazine [www.elcroquis.es]

AA.VV. Arquitectura Viva, AV Monographs [www.quitecturaviva.com]

Additional

AA.VV. HIC_Architecture [http://hicarquitectura.com]

AA.VV. Detail, international magazine for architecture and construction details [www.detail.de]

AA.VV. AA.VV. Architecture Platform [www.platformaquitectura.cl]