Teaching guide

IDENTIFICATION DETAILS

Degree:	Architecture
Scope	Architecture, construction, building and urban planning, and civil engineering
Faculty/School:	Higher Polytechnic School
Course:	URBAN PLANNING III
Type:	Compulsory
ECTS credits:	6
Year:	5
Code:	3753
Teaching period:	Ninth semester
Subject:	Urbanism
Module:	Projectual
Teaching type:	Classroom-based
Language:	Spanish
Total number of student study hours:	150

SUBJECT DESCRIPTION

Territorial and urban planning and its expression in the exercise of study and planning tools so that the student applies the knowledge acquired in this subject to a concrete project and, as a synthesis of their training, in all the Urban Planning subjects developed.

It seeks to address the nature and problems of real urban planning, ranging from territorial scales to that of the implementation of concrete projects, with reference to regulatory instruments and the capacity for action to operate in the complex space of the city. The subject proposes the city, of any dimension, as a complex reality of a social, economic and cultural nature that constitutes a basic reference for the community it houses.

The teaching objectives of the subject are the knowledge and exercise of urban study and planning tools so that

the student applies to a concrete project the knowledge acquired in all the Urban Planning subjects developed during their training as an architect. For comprehensive student training, it is necessary to apply the acquired knowledge of urban analysis and intervention methodology in carrying out urban planning projects in different situations and scales, and for the resolution of different programs. Identify, formulate and solve problems in a multidisciplinary environment typical of urban planning, understanding its impact on society and the importance of working in an ethically responsible professional environment, understanding urban planning as an area of the architect's professional practice as part of a multidisciplinary team that needs ongoing training.

GOAL

Familiarize yourself with the urban project as an element of intervention in the city, applying the knowledge of urban planning techniques learned in the previous previous subjects and which share the same block of content: knowledge such as planimetric comparison, consultation of photographs and specific surveys, uses and functionality of the city, social characteristics, urban and natural environment, and all those current concepts that comprise urban design, such as sustainability, resilience, equity,... etc... Learn to develop urban proposals and models built with the most appropriate graphics in each case. Apply the language, concepts and techniques specific to urban planning and urban design, enabling the forms of project construction based on the student's previous knowledge and on appropriate urban references that will be developed in parallel in the classes-workshops. Integrate urban, social and economic concepts as project elements and disciplines, elements that help to shape urban form. Distinguish the plurality of functions and activities that make up the spatial fact of the city and that would form part of the urban project being developed. Clearly state the different morphologies and building types associated with the project being developed by the student. Contribute to the generation of strategies to create spaces that are flexible and adaptable to the environments in which they develop, where people can work, live, reduce the consumption of non-renewable resources, combined with the design of adequate mobility, energy management, in response to the urgency of rapid global warming.

PRIOR KNOWLEDGE

Prior knowledge is essential to have passed the subjects Urbanism I and Urbanism II, which affect the learning of basic urban planning technique, knowledge and exercise of urban study and planning tools, so that the student has already become familiar with the urban fact and the plan as one of the fundamental elements of the project.

It is also considered essential that the student be able to project at different scales of approach to the urban fact, both from territorial perspectives and from the detailed design of elements of urbanization and public space.

COURSE SYLLABUS

INTRODUCTION. Emerging concepts such as 'sustainable development goals', 'urban agenda', 'circular city', 'tactical urbanism', '15-minute city', '30-minute territories', etc., for the design of healthy, intelligent, sustainable, equitable and inclusive cities.
BLOCK I. The delimitation of the scope and strategy of territorial and urban intervention 1. The natural environment and the urban environment, the landscape and urban sustainability. 2. Delimitation of the scope and scale of intervention 3. Functional structure, morphology, typology and historical and socio-economic

characteristics of the field of action 4. Urban problems detected 5. Delimitation and formulation of the territorial and urban intervention strategy

BLOCK II. The proposal for intervention in the territory and the city: implementation and relationship with the environment 1. Urban intervention criteria: social, physical, structural, etc... 2. Proposed morphology and appropriate building typology. 3. Functional Organization: Permissible and Necessary Uses 4. The consideration of the citizen as the user of the city and the heart of it, an individual and collective sphere in the urban project. 5. Elements that justify the proposed intervention, and its appropriate scale.

BLOCK III. The landscape of new urban territories: an approach to the new forms and principles of urban design of the city. 1. Principles of urban landscape and their application in urban design and proposals: public space as a design object 2. Citizen participation as a project element. 3. The conquest of public space and improvement of its quality as arguments for urban equity. 4. Formulation of the project as an urban plan, and estimation of applicable sectoral conditions.

EDUCATION ACTIVITIES

The teaching will be taught according to the workshop system, which is complemented by master classes that address specific topics and on which the students' proposals are gradually being developed in the workshop. The themes and concepts are introduced and developed at the beginning of each specific content of the syllabus, and several practical works are proposed that are part of a single project that students must carry out individually where these concepts will be reflected.

Learning will take place through the graphic references and models chosen by the teacher for the explanation of each topic, as well as through sharing and presenting the students' work in class, for which collective corrections will be made so that the results can be seen in each student and as a whole, and the contents explained in class are fixed in each case.

Throughout the course, three complementary and common themes will be developed for all students that will be developed individually and that are part of a single urban project, which will follow the following development scheme.

a. Presentation of the general topic. Discussion and adjustment of the statement based on the analysis of the place and fieldwork. Scheduling of group visits, conferences and complementary studies.
b. Preliminary ideas. Correction of drafts and sketches. Establishment of the intervention strategy, the urban program and dimensioning the scope of the action.
c. Formalization of the project at an appropriate scale of representation: basic definition of urban determinations.
d. Final delivery. Presentations. Collective correction. Course and evaluation balance. Results and conclusions of the developed project.

Complementary activities: Due to the nature of the subject, a relevant part of personal work is required outside the classroom, allowing for detailed knowledge of the field of action, with the visit to it, the estimation of the scope and scale of intervention, the configuration of the proposed urban project, and the critical study for this purpose of reference models.

DISTRIBUTION OF WORK TIME

TEACHER-LED TRAINING ACTIVITIES	INDIVIDUAL WORK
60 Horas	90 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.

Ability to solve problems and to take decisions.

Ability to apply procedures.

Capacity for ethical evaluation and commitment to ethical values.

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

An adequate knowledge of the history and theories of architecture, as well as the arts, technology and human sciences related to them.

Knowledge of the fine arts as a factor that may influence the quality of architectural design.

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.

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Specific skills

Aptitude for the conception, practice and development of urban projects. (T)

Ability to develop functional programs for buildings and urban spaces.

Ability to design and execute urban layouts and projects for urbanization, gardening and landscape. (T)

Ability to apply urban regulations and ordinances.

Adequate knowledge of ecology, sustainability and the principles of conservation of energy and environmental resources.

Adequate knowledge of the methodological foundations of urban planning and territorial and metropolitan planning.

Adequate knowledge of the mechanisms for drafting and managing urban plans at any scale.

LEARNING RESULTS

Capacity for critical analysis of urban problems, from multiple perspectives and at different project scales, based on the knowledge of examples of applied urban practice, which will be based on the specific formulation of the project developed by the student.

The development of the project will allow the student to build the capacity to discuss and evaluate the territorial scale and the insertion of architecture in the physical and spatial reality of the city, and the application of fundamental concepts of urban morphology and building typology.

The criteria contained in current accessibility regulations and publications of good urban practices will be applied to small-scale urban designs, focusing efforts on the creation of accessible public spaces: streets, green areas, residential areas, etc.,

Use of basic criteria for the relationship between architecture and the city, based on the knowledge of the scales of intervention: accessibility, spatial continuity, quality of public environmental spaces, relationship between built pieces, formation of the image of the city and the urban landscape,...

In the development of the project, the dimension of urban design of public space will be achieved, dimensioned and simple calculation of spatial needs: mobility and design of public roads, garden spaces, public spaces and construction of the urban landscape.

Class presentations will be based on historical examples of urban areas, their morphological characteristics and resulting building typologies as guidelines for the student's proposal.

The application of existing urban planning ordinances will be studied and put into practice on the project being developed, and the areas of the environment in which it is located, while at the same time a volumetric standard of application will be proposed to achieve the desired image of the city.

The initial elements for constructing the urban diagnosis of the study area will require an approach to existing

socio-demographic studies, quality of life indices, habitability indices of built areas, and specifically knowledge of basic housing programs, and adaptation to different cultures and social levels of these.

Application of the principles of sustainability in the design of urban development actions, knowledge of the ecological substrate and the principles of conservation of non-renewable natural resources such as soil or fossil energy resources, and effective application of these to the project being developed.

Application of sustainability criteria to architecture under the conditions of the place where the project is being developed, and previously under the conditions of implementation in the territory: favorable orientation for the limitation of energy consumption, size, characteristics of the soils, filtration capacity, capacity to house vegetation, safety of public spaces, etc...

Development of the role of the architect as urban designer, mediating agent between urban form, economy and cultural patterns of Western society in the use and functioning of urban spaces and built spaces. Application of the European consideration of public space as a space for shared use, guaranteeing the creation of a balanced city.

Application of the conditions of existing traditional and vernacular architecture in the project area, from the perspective of implementation in the territory.

Diagnostic capacity based on sociology, economic theory and the history of consolidation and detailed urban growth, applied to the diagnosis of the area of the city where the project is being developed, and the inclusion of this piece in the whole city.

Learning resulting from the presentation in class of the methodological foundations of urban planning, from the beginning of the 19th and 20th centuries and the last proposals of the 21st century, with the study of the urban development of different cities and metropolitan environments: a case study of Madrid and the growth of recent decades in developing cities in Latin America.

Knowledge of the contents and scope of drafting general planning and development of urban areas and the basic urban management systems applicable in the case of Spanish urban planning. Knowledge of the basic concept of return of capital gains in the urban development process.

LEARNING APPRAISAL SYSTEM

A.1 CONTINUOUS EVALUATION The subject is based on its workshop-format structure on continuous evaluation, which is based on the weekly/biweekly presentation of advanced work by students, and the development of critical group sessions, in order to guide progress and correct possible errors. A.2. CRITERIA FOR PASSING THE SUBJECT Attendance equal to or greater than 80% of classes is required, and to attend to public and group presentations of the proposals prepared by the student (s). The grades of the proposals will be subject to evaluation criteria that the student will know together with the statements of the contents to be developed in their proposals or works. Each work must be submitted on the dates indicated in its corresponding statement, and you will receive your note. Any work submitted after the deadline will imply the non-follow-up of the subject and therefore the obligation to take the final exam of the course to obtain the passing grade. It is necessary to submit all the practices before the exam for all students, so that it is possible to access it. The final grade of the course will be the weighted sum of the grades obtained in each work, taking into account the student's evolution through all their works. To pass, it is necessary to have submitted all the requested papers that are part of the course on time, and that the score of all of them is higher than five (5/10), understanding that the maximum parameter to be

obtained is 10. Those students who have submitted all their papers do not reach the average grade of five (5), or those who are missing some work to be submitted must take a final theoretical exam and properly complete those papers that have not achieved the necessary minimum grade of five (5). The result, in this case, of the subject will be the weighted average between the score obtained in the exam and the average obtained from all the works, provided that all of them have passed the minimum grade of five (5). A.3. CRITERIA FOR QUALIFICATION AND IMPROVEMENT OF THE WORKS: All coursework can be improved during the course of the course, making a new installment of these that will be evaluated by the teacher. These evaluations will replace the results of failed evaluations, or of work that is improved and completed. B. EVALUATION IN ORDINARY AND EXTRAORDINARY CALLS Students who do not pass the course or do not complete it may be eligible for an exam in the ordinary call. To carry out this exam, it will be necessary, first of all the practices of the course, to submit all the practices of the course, which will be evaluated on the criteria set out during the exam for the evaluation and their contents. An arithmetic average will be taken between the result of the practices and that of the exam, provided that both have obtained a grade equal to or greater than five (5) on a maximum scale of ten.
C. PLAGIARISM OR USE OF ILLEGITIMATE MEANS IN EVALUATION TESTS AND/OR SUBJECT SUBMISSIONS: 'Plagiarism, as well as the use of illegitimate means in evaluation tests, will be sanctioned in accordance with the provisions of the Evaluation Regulations and the University's 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

Jacobs, Jane (1916-2006) Death and Life of Big Cities/2nd ed. Madrid:Captain Swing, 2011.

(Jacobs, Jane (1916-2006) Death and Life of Big Cities/2nd ed. Madrid:Captain Swing, 2011. , ||Lewis Mumford The City in History: Its Origins, Its Transformations, and Its Prospects 1972)

Ryan Gravel Where We Want to Live: Reclaiming Infrastructure for a New Generation of Cities 2016
(Ryan Gravel Where We Want to Live: Reclaiming Infrastructure for a New Generation of Cities 2016 , ||Carlo Ratti and Matthew Claudel The City of Tomorrow: Sensors, Networks, Hackers, and the Future of Urban Life 2016)

Charles Waldheim The Landscape Urbanism Reader
(Charles Waldheim The Landscape Urbanism Reader , ||Jeff Speck Walkable City: How Downtown Can Save America, One Step at a Time 2012)

Additional

Carlos Moreno The revolution of proximity. From the World City to the Fifteen-Minute City 2023

Jan Gehl. Cities for People/Buenos Aires:Infinite,2014.

Jan Gehl The humanization of urban space: the social life between buildings 2006