



## Dipartimento di Architettura e Territorio – dArTe

### Corso di Studio in Tecniche per l'edilizia e il territorio L-P01

<b>Degree course</b>	Tecniche per l'edilizia e il territorio L-P01
<b>Course code</b>	1001561
<b>Lecturer</b>	Gabriella Pultrone
<b>Course name</b>	Urban planning tools and techniques
<b>Disciplinary area</b>	ICAR/21
<b>Disciplinary field of science</b>	Territory
<b>University credits – ECTS</b>	5
<b>Teaching hours</b>	49
<b>Course year</b>	II
<b>Semester</b>	I

#### Synthetic description and specific course objectives

The course of “Urban planning tools and techniques”, helping to train qualified polyvalent technicians in the construction sector and civil and rural infrastructures, aims at providing the student with adequate basic knowledge, both theoretical and applicative, of urban planning tools and techniques for the 'interpretation and planning of the city and the territory, with reference also to the possible contribution of the discipline in the implementation of Goal 11 of the UN Agenda 2030 (Making cities and human settlements inclusive, safe, resilient and sustainable). In line with the training course of the LP-01 class and with the specific training objectives of the CdS, the Course will develop the main issues related to the main themes of contemporary urban planning and the design tools of the discipline, so that it will immediately be able to addressing and solving technical and design problems in the workplace.

The didactic application activities will be aimed at the elaboration of the interpretative framework of the urban-territorial reality chosen as a case study, in order to read and understand the dynamics of the morphological and functional transformation processes occurring in the anthropic space, as well as the definition of hypotheses projects within the urban scale.

The educational objective of the course is to enabling student to interpret the relationships that link the transformation processes of the city and the territory with the theories and tools of the urban planning discipline, as well as to know and using the fundamental elements of urban planning techniques aimed at reading, interpretation and planning of the transformative dynamics of the city and the territory.

#### Course entry requirements

In order to ensure the coherence of the training course, even if no preliminary prerequisite is required in this regard, it is preferable students have already taken the exam in Civil, Administrative and Urban Planning Law, having so acquired the basic knowledge relating to Urban Planning Law.

## Course programme

The course program will focus on tools and techniques for urban and territorial planning in relation to the main issues of sustainable development of the territory and its cultural, landscape and identity values, in line with Goal 11 of the UN Agenda 2030 (Making cities and inclusive, safe, resilient and sustainable human settlements).

The topics proposed therefore include specific in-depth analyzes related to strictly interrelated main issues, highlighting where possible the relationships, additions and / or connections with the "Geomatics, remote sensing, cartography and GIS" course, also in the first semester. Ideas, issues, historical references, technical and regulatory instruments that the discipline uses with reference to the different territorial scales and the different sectors of intervention constitute the center of the theoretical reflection in connection with the planned exercise.

The course will be divided into a theoretical module and an exercise as specified below:

**THEORETICAL MODULE - The contemporary city: materials, themes, tools, techniques**

The module, of a theoretical-applicative nature and preparatory to the didactic exercise, will focus on the illustration of the changes characterizing the city and its project in the contemporary world, on the urban materials that characterize its configuration on the themes that emerge for its reconfiguration, on the structures of urban planning tools in more recent years and on the most current issues of the scientific debate related to the implementation of the UN Urban Agenda 2030.

Therefore the following contents will be proposed:

- Urban planning today (emerging issues and issues between global and local)
- City and territory: from the acquisition of knowledge to the prefiguration of new structures; elements for reading, interpretation, representation and design
- Elements of urban planning techniques (cartography, sizes, parameters, dimensional ratios, standards, technical characterization of the plan and implementation methods).

## EXERCISE

The exercise, organized through classroom activities, field surveys and workshops, is aimed at applying the knowledge acquired in the second module with reference to the territorial context that will be identified as the study area. It will be structured in two main phases of work:

1. Interpretative reading of the physical, settlement and relational system of the study area, aimed at identifying their relationships, identifying the relevant characters and spatial systems that characterize them, in their criticality and quality, with attention to issues related to sustainability .
2. Elaboration of a design hypothesis, within the municipal scale, with indication of the possible implementation methods and references to Goal 11 of Agenda 2030.

The documents to be presented at the final exam are those presented at the deliveries scheduled for each phase of work, systematized, reorganized and corrected according to the information provided by the teacher in the various moments of comparison (reviews and workshops).

## Expected results

With reference to the Dublin Descriptors, the student must achieve the following learning outcomes:

1. Knowledge and understanding. The student must acquire knowledge and understanding of the main tools and techniques for the analysis and interpretation of urban phenomena and the methods of representation.
2. Applying knowledge and understanding. The student must acquire the ability to read, interpret and represent the transformations of the city and the territory in relation to both the morphological and functional aspects, through the tools of urban planning. Therefore, you must be able to apply the acquired knowledge and possess adequate skills to tackle the main problems concerning urban planning techniques.
3. Making judgments. The student must acquire the ability to integrate the various knowledge and critically reflect on the different topics proposed. All this gets him used to collecting and analyzing data, making decisions and judging and predicting the effect of his choices.
4. Communication (communication skills). The student must develop the ability to communicate, in the form of dialogue, written and graphic, the contents learned and his own proposals, arguing adequately in moments of constructive critical confrontation both with other colleagues, during the course of teaching activities, and to the final exam.
5. Ability to learn (learning skills). The student must acquire the necessary skills that allow him to independently document himself on the topics studied, to use the methodological tools useful for his own cultural growth and for the continuous updating of his knowledge in the field of urban planning and territorial

governance, researching the sources necessary to address issues related to their professional area of expertise, also with IT tools. This will strengthen the awareness of recognizing the need for independent learning throughout the life span and to commit to achieving this goal.

### Course structure and teaching

The course is structured into frontal and interactive lessons, seminars and days dedicated to deepening the theoretical themes and the exercise, to the verification and revision of the work done by the students.

Students must formalize their enrolment through the course mailing list (by accessing their personal area through own credentials), no later than the second week of classes.

The course attendance, according to the Academic Regulations the Degree Course, is mandatory and students are required to attend at least 70% of the lesson hours to be admitted to the final exam-

Lessons (hours / year in the classroom): 20 hours / semester

Exercises (hours / year in the classroom): 20 hours / semester

Practical activities (classroom hours / year): -

### Student's independent work

Student's autonomous activities, which must take a total of 75 hours, are divided as follows:

- 35 hours of individual study to critically rework and consolidate theoretical contents;

- 40 hours of independent work to be dedicated to the completion of the graphics produced during the didactic activities.

### Testing and exams

Attendance to the course is mandatory, with ongoing verification of learning and progress of the exercise. These will be carried out on the dates and in the manner that will be communicated from time to time by the teacher (reports, tables, power-points, etc.)

The final exam will focus on the discussion of both the project proposal developed, both the theoretical principles and bibliographical references.

The vote will be based on evaluation criteria which refer to: frequency; ability to express the different topics with language properties and critically; quality and relevance of the proposed project contents; graphic quality; presentation and organization of the work.

### Suggested reading materials

Gabellini P., *Tecniche urbanistiche*, Carocci, Roma 2001.

Gabellini P., *Fare urbanistica. Esperienze, comunicazione, memoria*, Carocci, Roma, 2010.

Gaeta L., Janin Rivolin U., Mazza L., *Governo del territorio e pianificazione spaziale*, Città Studi Edizioni, Torino, 2021.

Pasqui G., *Urbanistica oggi. Piccolo lessico critico*, Donzelli, Roma, 2017.

Pultrone G., *Territorializzare gli obiettivi di sostenibilità in EU attraverso la rigenerazione*, in ANATKH 93. Nuova serie, Maggio 2021, pp. 143-147.

Pultrone G., *Rigenerazione urbana e politiche per un nuovo welfare*, in: Ricci L Crupi F. Iacomoni A. Mariano C., *Città pubblica e nuovo welfare. Una rete di reti per la rigenerazione urbana*, INU Edizioni, Roma - Ita, 2021.

Rossi S., *Parte F – Urbanistica*, del "Nuovo Manuale dell'Architetto", (coord. Bruno Zevi), Mancosu Editore, Roma 1996.

Trusiani E., *Orientarsi nell'Urbanistica*, Carocci, Roma, 2008.

Further references and teaching materials will be provided during the course