



Degree course	Architettura quinquennale – Classe LM-4
Course code	60N89
Lecturer	Prof. Francesca Moraci
Course name	<b>Pianificazione urbanistica</b> <b>Progettazione urbanistica</b> Laboratorio di “Urbanistica 2”
Disciplinary area	Progettazione urbanistica e pianificazione territoriale
Disciplinary field of science	ICAR/21 Urbanistica
University credits - ECTS	12
Teaching hours	120
Course year	4°
Semester	1°, 2°

#### Synthetic description and specific course objectives

The Laboratory contributes to the formation of the European architect in line with the educational objectives of the LM4 Class, creating a professional figure with specific design ability, at all levels, as regulated by DPR n. 328/2001 that it empower the professional full title to operate, even at European level, in the field of urban and landscape planning. The course is scheduled in the third year of the degree course “Architettura quinquennale”. The specific objective of the course, in line with the contents of the SSD ICAR/21, is the integration of knowledge -in the context of urban, land and environmental planning- finalized to the process of design synthesis.

The course provides basic knowledge and expertise -through case-study, hypothesis testing, tutorials- on the fundamentals of technique-based urban planning, urban and land design with traditional techniques and new ways (linked to regional legislation, complex programs and perequazione, etc). The course also provides ways to approach the design and study of the transformations affecting: urban systems, the effectiveness of regional and sectorial planning legislation, the new urban programs and innovations related to the development of operational procedures. The objective is to teach them the basic techniques in order to the city planning through the understanding of relevant topics and formal and operative construction of the project and its drawings and administrative procedures.

#### Course entry requirements

The course is part of a training course in which students have already been provided the basic concepts that characterize the discipline object of the laboratory. The course will deal with - through progressive levels of analysis the most debated and critical issues of urban design and the links with urban, territorial, environmental and landscape planning. The design at the urban scale (projects and implementing urban plans, urban plans, as well as wide-area plans) falls within the competence of the Architect. The main purposes of the course are aimed at providing students with the basics in terms of technical and urban (and territorial) planning, and some notes on deepening the construction/implementation of the planning tools and national and regional legislation. In particular, the case studies are oriented toward the comparative knowledge of the LUR provided in the national scene, with a further deepening of Lur Calabria.

To take the exam of this Laboratory, the student must have passed the exams of: Diritto

Urbanistico (first year), Laboratory of Urbanistica I (second year).

In particular, the student must have an adequate knowledge in relation to:

- The main concepts and theoretical topics related to the role of urban and territorial planning;
- The history of modern city planning and the main steps of the construction process and the formation of the planning disciplinary corpus;
- The ability to produce adequate cartographic representation of urban and territorial phenomena
- Knowledge of the fundamental principles of the technical urban planning;
- The essential elements of planning, landscape and environment legislation at the national and regional level.

## Course programme

The annual laboratory proposes: a synthetic framework of recognition on the topics already addressed in the preparatory courses, a methodological study on the most salient, a reading of the best practices and methods on the construction of planning tools in light of recent legislative innovations .

They are brought under review -throughout the duration of the Laboratory- the contents and the comparison between urban planning and implementation, including national and regional legislation and current innovations (by reading the best practices), strategies and *programmi complessi*, the main valuation techniques accompanying the plan in addition to the unbreakable bond between town planning and building design.

The lectures of the Laboratory are divided into four thematic sections:

**Module General:** notions on town planning, on ordinary tools for the implementation of the plan, on the experiences in the national and international debate.

**Module 1:** Regional planning legislation and current innovations with reference to the urban implications.

**Module 2:** Urban Techniques introduced through the Lur in the construction and implementation of the plan.

**Module 3:** Examples of the Piano Strutturale Comunale (PSC), the POT and the Piani attuativi unitari (PAU) and the tools of the Pianificazione negoziata construction, under the Lur 19/2002.

There will be a series of seminars (which will be invited external speakers, experts from various interdisciplinary areas) about urban projects, on the topics of regional planning legislation and its application, perequazione, sector studies and specialized investigations with respect to the contents of the PSC (Lur 19/2002), with the presentation of case studies related to planning tools and analysis of plans; on elements of the municipal plan design: infrastructure, service system, peri-urban areas, geomorphology and safety, etc.

The practical exercise will address the urban design of parts of the city with the preparation of plans and implementation tools of the Piano strutturale comunale. It will have as its object of study the preparation of a Piano Attuativo Unitario (PAU), or the design of a Ambito Territoriale Unitario (ATU) in reference to the implementation of the strategic guidelines established by the Documento Preliminare (DP) of the Piano strutturale Comunale of a Calabrian municipality.

The purpose of the practical exercise is to propose a general reorganization of the area in question, in reference to all of the public spaces and existing buildings, both forward more detailed proposals with respect to portions of the area. Particular attention will be devoted to the delicate relationship between urban planning and design and building requalification.

## Expected results

The aim of the course is to enable the student: to deal with, the necessary basic knowledge, a first critical apparatus to the territorial and urban problems in the current context, to test this knowledge in an project application in some parts of the territory, to develop the ability to analyze and interpret the urban systems in order to identify the structures, hierarchies and relationships, aimed at urban planning and development of parts of the city (recovery of the existing city, environmental regeneration and functional recovery of disused areas).

The student will acquire, during the course:

- The ability to interpret trends and possible outcomes of the transformations of the city, in relation to physical, environmental and economic changes and social dynamics and policies of government, through the preparation of the PSC and the POT;
  - Specific knowledge of the methods and techniques used to construct the instruments of implementation, traditional and new.
  - The ability to apply theories, methods, techniques of urban planning and territorial cohesion through the application of an instrument of implementation;
  - Adequate knowledge of the methods and techniques of organization and management of processes and procedures relating to the government of the territory.
- The course offers a deeper scientific reflection on the characteristics, operation and performance of the settlement system to the urban and territorial scale, with the aim of:
- define the background scenery to plan strategies and implementation of project interventions useful for the incremental transformation of urban and territorial systems.
  - finalize, this process, towards the identification of the dominant themes of the transformation of the space, the city and the region, through the analysis of urban and territorial planning tools aimed at the design of the different levels.

### Course structure and teaching

Lectures (*hours/year in lecture theatre*): 60  
 Practical class (*hours/year in lecture theatre*): 30  
 Practical / Workshops (*hours/year in lecture theatre*): 30

The course is organized in lectures, seminars, tutorials, group reviews and practical class discussions. The Attendance is obligatory (70% of hours in lecture theatre). Students are required to enroll no later than the second week of classes; the presences will be verified in every lesson.

### Student's independent work

For the final exam, students are required: to study and critically revise the contents of course - subject to ex cathedra lecture and seminar activities-; to perform all the assigned exercise. The number of hours of individual study for these activities is estimated at about 180 hours for the entire Laboratory.

The student will perform, outside of teaching hours, additional 120 hours of insights related to the themes of the lectures and the practical exercise that will have as its object of study the preparation of a Piano Attuativo Unitario (PAU), or the design of a Ambito Territoriale Unitario (ATU) in reference to the implementation of the strategic guidelines established by the Documento Preliminare (DP) of the Piano strutturale Comunale of a Calabrian municipality.

In particular, the exercise will provide for:

- Reconnaissance of problems and peculiarities of the "ambito". The project work summarizes the main features of the chosen Ambito Territoriale Unitario (ATU), relative to bonds, orographic conditions, accessibility (through drawings, summary and reports).
- Interventions provided and equalization mode. Project. Calculation of areas subject to equalization and methods of implementation (through drawings, summary and reports).
- Implementation and public/private, PP, involvement. Simulation of Public/Private contractual arrangements (through summary and reports).

### Testing and exams

To take the final exam you will need to have attended lectures and taking part in collective activities of the laboratory (lectures, seminars, workshops, revisions), and having done the tutorial project on the topic agreed with the teacher. The exam will consist of an interview on the topics covered in the lessons and the illustration of the drawings based on the work carried out during the Laboratory. The project can be processed individually or in small groups (maximum three people) and its progress will be discussed by collective or individual reviewing, midterm

workshops and seminars that regularly punctuate the activities of the Laboratory. Are attributed to the Laboratory 12 ECTS. The attendance is mandatory for 70% of hours in lecture theatre set by the calendar. The frequency signature is subject in addition to the actual frequency, although active participation in exercises and effective development of the theme of the year.

## Suggested reading materials

### References

- Avarello P., *Se esiste l'urbanistica a cosa serve?*, Collana INU edizioni, 2010.
- Carbonara S, Torre C.M. (a cura di), *Urbanistica e perequazione. Regime dei suoli, land value recapture e compensazione nei piani*, Angeli 2012.
- Karrer F., M. Ricci, *Città e nuovo Welfare*, Officina Edizioni 2003.
- Moraci F., *Studi preliminari alla formazione del Piano Strutturale Comunale di Reggio Calabria*, Catalogo Della Mostra-UrbanPromo2009, Scheda di presentazione del PSC ad UP09, Vol. 1, 2009;
- articles: *Urbanistica* 148-149, *Urbanistica Dossier* 111 e 125, *Urbanistica Informazioni* 197.

During the course will be provided other texts and articles.

### Legislation and regulations

National and regional laws - Urban planning national legislation

Regional law n. 19 of 16 April 2002 and subsequent amendments

Regione Calabria, *Linee Guida della Pianificazione Regionale*, Assessorato Urbanistica e

Governo del Territorio, Regione Calabria, 2008

D.lgs. n. 152/2006 and subsequent amendments

Legislation and explanatory circulars will be provided during the course.

**Webliography** (will be provided during the course)

### Other Teaching Materials

Teaching materials and cartographies will be provided during the course and/or published on website.



## Dipartimento di Architettura e Territorio – dArTe

### Corso di Studio in Architettura quinquennale – Classe LM-4

Degree course	Architecture
Course code	SAR17
Lecturer	Gabriella Pultrone
Course name	Urban Design
Disciplinary area	B
Disciplinary field of science	ICAR/21
University credits - ECTS	6 CFU
Teaching hours	60
Course year	IV
Semester	II

### Synthetic description and specific course objectives

The course of *Urban Planning* and *Urban Design* are parts of *Laboratory of Urban Planning 2* which, included in the 4<sup>th</sup> year of CdS, contributes to the training of the European architect in correspondence with qualifying aims of Class LM4, with specific reference to the qualifying aim to deeply know the theoretical, scientific, methodological and operative aspects of urban planning and to be able to use these knowledges in order to identify, express and solve complex problems or problems which request an interdisciplinary approach.

The fundamental specific aim, in step with the contents of SSD ICAR/21, is the integration of knowledges in the field of town and territory aimed at the process of planning synthesis.

In particular, as the drawing up of general municipal urban plans and executive plans, as well as wide areas plans, is a competence of the 'Architect – the Course will provide basic notions and specific knowledges on the base of urban design of traditional kind and new technical ways, expected from regional legislation on this subject; besides it will provide instruments and methods of approach to the design and study of the modifications involving urban systems, social changes and relations with town and its transformations, new urban plans and innovations connected with the elaboration of operative and executive procedures.

### Course entry requirements

In order to make the exam of *Laboratory of Urban Planning 2* the student must have passed the exam of Urban Law ( first year), *Laboratory of Urban Planning I* ( within second year).

In particular, he must have right basic knowledges concerning with:

- main concepts and theoretical themes concerning with the role of urban and territorial planning;
- history of modern urban subject and of main steps of the process of construction and formation of the disciplinary corpus of urban planning;
- ability to produce a right cartographic representation of urban and territorial events
- knowledge of fundamental principles of urban technique;
- fundamental elements of the urban, landscape and environmental legislation on national and regional level.

### Course programme

As the *Laboratory of Urban Planning 2* coordinates the teachings of the two courses of Urban planning and Urban Design, also the two programmes are strictly coordinated and structured each on two parallel and closely integrated paths:

Students will be provided with a series of information concerned with theories, urban instruments, projects

and practices which have led the formation of physical spaces, of life and relation of the contemporary town, while at the same time they will be invited to face the practice of reading of the spaces and the construction of a urban instrument. Infact according to the course, in addition to the lessons ex cathedra, there will be an application part, which is going to offer a urban plan in a Municipality of the region Calabria/Sicilia, starting from the reading of municipal territory, identification of themes, places and setting of the transformation, cornerstones of the construction of a Municipal Structural Plan, and the experimentation of plans of transformation of some settlement sectors.

Frontal lectures of the whole *laboratory* are structured on thematic areas, where courses will be crossed with specific *lectures* characterizing arguments, keeping just one chronological reading path in order to exalt the interdisciplinary aspect.

In particular the following arguments will be subject of analysis in the course of *Urban Design*

- Relation between general urban planning and realization of interventions
- From traditional approach to the new culture of design
- The Construction of Urban Executive Plan
- Plan and negotiation
- Urban techniques introduced through LUR in the construction of the plan
- Communication of a urban plan
- Evaluation in the plan process
- Reading and interpretation of plans and urban projects.

## Expected results

At the end of the course the student will have to have achieved knowledges of methodological nature, of use of rules, regulations and instruments useful to the building of the urban plan, to the comprehension of the contemporary town and to the definition of hypothesis for its transformation.

In particular, these knowledges will be aimed to:

- develop the abilities to analyse and interpret urban systems to find the structures, hierarchies and relations, aimed to planning urban development and parts of the town (recovery of the being town, environmental and functional requalification, recovery of disused areas..)
- draw up urban plans with normative-regulative features, operative plans in urban and territorial field, plans of urban transformation;

At the end of Laboratory of Urban Planning, the student will have to be able to do his activity in urban territorial field as in the plan area with normative-regulative features as in the area of operative planning

## Course structure and teaching

The course is structured in lectures, seminaries, practical classes, collective revisions and debates in class. *The attendance is compulsory (for 70% of lessons), students have to enroll within the second lesson week; attendances will be verified during every class.*

Lectures (*hours/year in lecture theatre*): 24

Within lectures and seminaries we will develop many approaches to the reading and to the plan from territory to urban space and will provide "tools" good at defining dimensions, materials, uses, relations. The intention is to draw up a unit of specificity and recognition for a subject like urban planning, from ever oriented to the contamination and dialogue with other knowledges and disciplinary groups. Lectures will develop instruments, rules and regulations which characterize and define contemporary urban planning.

Contents and comparisons among urban and executive plans will be showed, between national and regional legislation and innovations in progress(through the reading of the best practices), strategies and complex programmes, main techniques of evaluation.

Lectures will be held with the help of slides and cartographies, summarizing schemes and lectures notes provided by teachers, in addition to the bibliography generally suggested for consultation.

Practical / Workshops (*hours/year in lecture theatre*): 36

Along with the study and the research on arguments developed during the lectures students will be invited to do a practical class of Laboratory wich is concerned with the testing of planning methodology for the drawing up of urban instrument on council scale with researches of operative nature on a municipality chosen by the student.

Practical Laboratory will be structured in more work steps,

- Reading of settlement systems and not urbanized territory, to the identification of the internal and over local relationships, to the recognition of relevant features and space systems characterizing them, in their criticality and quality.
- Construction of a referring scenery for the future of the municipality subject of study within the following 10-12 years, which permits to prefigure a structural design (Municipal Structural Plan) of the possible future transformations of this territory. Besides strategies will be elaborated through which we aim to give a shape to this scenery, and possible actions of development into the same scenery will be found in the space and in the operative ways.
- The development of one of plans of transformation will be subject of the last part of the Laboratory, that will held partly as final intensive workshop.

Papers which have to be presented into the final exam from each group are the same presented at the report planned for each step of work, systematized, reorganized and corrected on the base of indications provided by teachers in the different moments of comparisons (revisions and workshop).

The scale of each representations will have to answer, time after time, on a level of research/project practiced, and follow the indications provided by teachers.

## Student's independent work

In order to face the final exam students have to: study and critically re-elaborate the contents of the course subject of lessons ex cathedra and seminary activity; do all the practices assigned. Time plan for individual study for these activities is esteemed in about 90 hours.

## Testing and exams

In order to face the final exam of the Laboratory of Urban Planning 2 it will be necessary to have attended lectures of each of the two courses forming it, have attended the collective activities of the Laboratories (lessons, seminars, workshop, revisions), and have developed projectual practice on theme arranged with teachers.

The exam will be an oral interview on themes developed during the lessons and on the illustration and discussion of the graphic papers concerning with assessment scheme the urban project of the area of study on the base of the seminary activity held during the practice of the Laboratory within courses it consists of.

## Suggested reading materials

Alexander C. (a cura di A. Barresi), *Una nuova teoria di disegno urbano*, Gangemi editore, Roma, 1996

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

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

Laboratorio Città Pubblica, *Città pubbliche. Linee guida per la riqualificazione urbana*, Bruno Mondadori, Milano 2009

Moraci F., *Studi preliminari alla formazione del Piano Strutturale Comunale di Reggio Calabria*, Catalogo della Mostra-Urbano 2009, Scheda di presentazione del PSC ad UP09, Vol. 1, 2009

### Legislation

National urban town planning

LUR Calabria, Law n. 19 16th april 2002 and s.m.i.

Regione Calabria, Guide lines of Regional Planning, 2008.

Sitegraphy reference and other learning material will be suggested *in itinere*, during the development of the course.



<i>Degree course</i>	ARCHITECTURE
<i>Course code</i>	60N89
<i>Lecturer</i>	Giuseppe Fera
<i>Course name</i>	Urban Planning Studio 2, a)Urban Planning, b) Urban Design
<i>Disciplinary area</i>	Urban Design and Land use Planning
<i>Disciplinary field of science</i>	ICAR21
<i>University credits - ECTS</i>	12 (6+6)
<i>Teaching hours</i>	120
<i>Course year</i>	IV
<i>Semester</i>	annual

#### Synthetic description and specific course objectives

The Urban Planning Studio 2 concludes the training process of the Degree course in Architecture, regarding to the skills of the architect in the field of Urban planning and design.

The Studio, therefore, according to the educational objectives of the class LM4, which requires, among other things, that the graduate in architecture "knows in detail the theoretical aspects of scientific, methodological and operational planning and is able to use this knowledge to identify, formulate and solve complex problems that require an interdisciplinary approach", provides students with the methodological tools and skills necessary to the formulation of urban and regional plans, and in general of programs and projects relating to the transformation of cities, territory and environment.

More specifically, the Studio, lasting one year, provides students with the knowledge of methodology necessary to:

- elaborate surveys and studies, preliminary to the preparation of plans and programs, aimed at the understanding of the social, economic, morphological, historical and environmental aspects of the city and territory;
- formulate normative plans, operational programs in urban and territorial contexts and urban transformation projects;
- develop such plans and programs in an interactive and participatory way with citizens;
- coordinate working groups integrated with other disciplinary skills.

#### Course entry requirements

In order to attend the Workshop, the student must have an adequate basic knowledge in relation to:

- the main concepts and theoretical issues related to the goals of planning, its meaning and its dual role both of technical tool and process of governance;
- the history of modern city planning and the main stages of the process of construction and the formation of the disciplinary corpus;
- the ability to produce adequate cartographic representation of urban and territorial phenomena and environmental characteristics;
- the knowledge of the fundamental design techniques of urban planning;
- the essential elements of planning, landscape and environmental legislation at the national and regional level;

-the role of urban planning as a tool for the implementation of regional cohesion policy.

To attend the course and support the examination of the Urban Planning Studio 2, the student must have passed the examination of Urban Legislation (first year), the Urban Planning Studio 1 (second year) and of "Policies and strategies for territorial cohesion" (III year).

## Course programme

The laboratory is divided into two modules:

Module A): General Land use planning at the municipal level (I semester)

Module B): Integrated strategic plans and operational programs (II semester).

Each module is divided into two parts: the first of theoretical study and a second part of practical application, in which the students will be expected to develop a project in an selected area.

**Module A)** develops the theme of Land use planning at the municipal level, with particular reference to the Municipal Structural Plan; this module will provide the student with the basic legislative concepts of structural planning and the methodological knowledge necessary for the formulation of a plan at the municipal scale. In particular, the emphasis will be on:

- methods of analysis and diagnosis of the territory, with regard to the legal, environmental, economic, social and morphological aspects;
- methodological process for the definition of the different areas of the municipality in relation to different forms of intervention required by planning legislation (Conservation, transformation, new urban settlements).

The part of the theoretical study involves the following main topics:

- the modern urban planning legislation: the government of urban growth, land use, zoning and planning standards;
- sustainable development and environmental planning: the principle of environmental sustainability, the Environmental assessment of plans and projects, the environmental method in urban planning;
- the regional act of Calabria n° 19/02: the leading principles; municipal planning (the Municipal Structural Plan, the Town Planning and Building Regulations and the Operational Temporal Program).

In the second part of the course, the students, organized into working groups, will be asked to perform a project theme as the design of a Scheme of a Structure Plan in a selected town.

**Module B)** will develop the theme of strategic operational planning with particular reference to urban transformations. This module will provide the student with the fundamental concepts of strategic community planning and major legislative and methodological knowledges, necessary to the formulation of a plan. In particular, we will focus on the procedures and methodologies aimed to build up a community based and participatory plan. The theoretical part will develop the following topics:

- planning and participation. The plan as a decision-making process, the interactive planning: negotiation, consultation, participation; participation in the experiences of urban regeneration.
- the "traditional model" and the "Community model" of strategic planning;
- methods and tools of strategic planning: Swot Analysis, Visioning, goal-oriented methods.

In the application part, students will be asked to draw up an operational program aimed to the implementation of the general plan drafted in the first module.

## Expected results

At the end of the workshop students will be able to carry out their activities in the field of both normative and strategic urban planning.

## Course structure and teaching

Lectures (*hours/year*): 20 + 20 hours

Seminars (*hours/year*): 10 + 10 hours

Project workshop (*hours/year*): 30 + 30

## Student's independent work

In addition to the classroom activities, students must perform a "in their own study activity" on the topics covered in the lectures and, upon request of the teacher, prepare "presentations" that may be the subject of a seminar discussion in the classroom.

In addition, for the purposes of developing their project, students will be called to carry out practical activities in the selected territory, in order to provide the necessary knowledge of the places, the retrieval of statistical and cartographic material, and to develop interviews and meetings with citizens.

The amount of the student's independent work is of 180 hours.

## Testing and exams

At the end of the Module A) the student will be called on to play an intermediate test consisting in the verification of knowledge of the topics covered in class and in a discussion and critical analysis of the project work. The resulting score will be considered for the evaluation of the final exam, which will take place, with the same mode, at the end of the module B). At the final exam, the entire exercise carried out during the year will be presented and discussed.

## Suggested reading materials

### REFERENCES

Fera G., *Urbanistica, teorie e storia*, Gangemi editore, Roma 2002;

Fera G., *Comunità, urbanistica, partecipazione*, Franco Angeli, Milano 2008;

Fera G., "*La pianificazione strutturale in Calabria: qualche riflessione*", in *Urbanistica* n° 136.

The urban planning act of Calabria, n° 19/2002;

Guidelines of Regional Planning in Calabria