



URBAN PLANNING TECHNIQUES	
Enrollment year	2020/2021
Academic year	2021/2022
Regulations	DM270
Academic discipline	ICAR/20 (URBAN PLANNING)
Department	DEPARTMENT OF CIVIL ENGINEERING AND ARCHITECTURE
Course	ENVIRONMENTAL ENGINEERING
Curriculum	Energie rinnovabili
Year of study	2°
Period	2nd semester (07/03/2022 - 17/06/2022)
ECTS	6
Lesson hours	60 lesson hours
Language	Italian
Activity type	WRITTEN AND ORAL TEST
Teacher	DE LOTTO ROBERTO (titolare) - 3 ECTS VENCO ELISABETTA MARIA - 6 ECTS
Prerequisites	Basic knowledge of mathematical tools, concepts of human geography and history, ability to prepare a technical report and representative graphs, knowledge representation techniques of manual and computerized.
Learning outcomes	The course, launching the student to the disciplines of urban and territorial planning, aims first to understand the relationship between mankind and environment and how the effects of human actions involve changes in the environment and landscape. It introduces the general concept and methodology of Urban Planning indispensable for the composition and for the understanding and application of the practice. The course also explores the more technical issues to enable the student to achieve mastery methods, and urban and territorial indicators.
Course contents	The themes of the course will mainly turn around the current priorities of

the "sustainable development" of the territory to be implemented through the protection of the landscape and the natural environment, and also with particular reference to the key role of the "public city" as a prerequisite for a measured and harmonious development of the settlement anthropic.

1. The instruments of the Urban Planning The dimensions, sizes, parameters and indices, the standard planning and its development, zoning, expropriation, compensation and equalization.
2. Examples on important urban references Learn more about the main techniques used for the implementation and / or drafting of the most significant urban plans and programs in the history of the discipline.
3. Technical aspects, methods of investigation and design elements: The grading, the natural environment and natural resources, socio-demographic, residential structures, structures and economic activities, public services, infrastructure and kinematic mobility, systems and technology services, materials in open space (green, squares, streets and parkings), the materials of the built space.
4. Planning techniques, the Italian Law and town planning Law. Relevant legal principles and rules for the technical planning from existing legislation and law, and their coordination with the regulatory landscape and cultural heritage and the right environment. Technical and legal expropriation rules for the formation and use of urban planning. Legal zoning techniques, equalization, compensation and incentive planning. Framework of the Italian hierarchy of norms and elements of constitutional law. The legal parameters of urban indicators, quantities as indicated in DM 2/4/1968 1444. Discussion of the issues at the regional level with particular emphasis on LR 12/2005 of Lombardy. Complementary institutions of the Highway Code, the D.Lgs. 380/2001, the D.lgs.vo 42/2004. Examples of the application of planning techniques to plans or sample programs.

Teaching methods

Lectures (hours/year in lecture theatre): 80
 Practical class (hours/year in lecture theatre): 40
 Practicals / Workshops (hours/year in lecture theatre): 60

Reccomended or required readings

P. Gabellini. *Tecniche Urbanistiche*. Carrocci Editore, Roma (2001).

Gian Carlo Mengoli. *Manuale di Diritto Urbanistico* (6a edizione). Giuffrè Editore, Milano (2009).

G. Colombo, F. Pagano, M. Rossetti. *Manuale di Urbanistica*. Il Sole 24 ore, Milano, 2008.

I. Calvino. *Le città invisibili*. Oscar Mondadori, Milano (1996).
 Recommended supplementary reading.

Newmann & Jennings. *Cities as sustainable ecosystems*. Island Press House. Recommended supplementary reading.

Jared Diamond. *Collasso*. Einaudi, Torino (2005). Recommended supplementary reading.

Marc Augè. *Non Luoghi*. Eleuthera. Recommended supplementary reading.

Assessment methods	After finishing the project developed during the laboratory activities the students will be admitted to an oral examination (which may be preceded by a short written test).
Further information	After finishing the project developed during the laboratory activities the students will be admitted to an oral examination (which may be preceded by a short written test).
Sustainable development goals - Agenda 2030	\$lbl legenda sviluppo sostenibile