

**TERRITORIAL PLANNING AND URBAN RENEWAL** 

Teaching Unit	Territorial Planning and Urban Renewal	
Unit Code		
Degree title (CdS)	ENVIRONMENTAL AND TERRITORIAL SAFETY ENGINEERING	
Degree level	Second	
Module code	0773	
Scientific Disciplinary Sector (SSD)	ICAR/20	
Number of ECTS credits (CFU)	6	
Teaching Unit Category (TAF)		
Teaching Unit Qualification		
Course year	2	
Semester	First	
Lecturer	Paola Cannavò	
Other instructors involved	none	
Module breakdown	Hours of Lectures	36
	Hours of Practicals	
	Hours of Laboratory	12
	Hours of Individual study	102
Language	English	
Mandatory prerequisites	none	
Prerequisites	Basic understanding of territorial planning and governance tools, environmental issues and principles of sustainability.	
Content	This course is designed to provide the student with the tools to conceive an innovative territorial planning project, a planning useful for addressing, through a sustainable project, the complexity of current environmental issues. Students will learn an exhaustive scientific framework on the current environmental situation in urban areas and on the possibility to deal it with nature based interventions to sustainably address the issues related to the effects of climate change and urbanization.	
Teaching objectives	The course will provide students with fundamental concepts necessary to conceive a sustainable project for the territory aimed at prevention, mitigation and adaptation to environmental risks. It will guarantee students the skills necessary to deal with complex problems related to environmental issues and with the governance of territorial sustainable transformation	



	<p>processes.</p> <p>Students will therefore understand how to convey the knowledge acquired during their studies towards an interdisciplinary vision.</p> <p>Students will be introduced to theories and practices of Ecological Urbanism and Nature Based Solution, analyzing projects carried out in international urban contexts.</p> <p>The goal is to combine the classic technical preparation of the environmental engineer with critical knowledge tools useful for planning and programming actions for a sustainable territory.</p> <p><u>Specific competences:</u> learn a solid methodology for designing innovative processes to address environmental conflicts towards sustainable solutions.</p> <p><u>Transversal competences (soft-skills):</u> ability to deal with complex problems; team working; ability to actively participate in group discussions; capacity to address uncertainty; delivering research results in public by means of a digital slide show presentation.</p>
Programme	<p>TERRITORY AND SUSTAINABILITY</p> <ul style="list-style-type: none">• Anthropocene: effects of climate change and urbanization on the territory• ecological footprint• Natural Capital and Ecosystem Services• Agenda 21 and collaborative governance. <p>URBAN RENEWAL and SOUSTAINABLE GOVERNANCE</p> <ul style="list-style-type: none">• Ecological Urbanism / Landscape Urbanism• Re-naturalization of urban areas• Ecological network: green and blue infrastructures.• Nature Based Solution <p>CASE STUDIES Climate Plan, Resilient Cities, River Contract</p>
Delivery Mode	Frontal teaching
Teaching Methods	<p>The course consists of frontal theoretical lessons and practical exercises on specific case studies. The project work is elaborated in teams. It consists of a report and a presentation, prepared according to the indications provided in the classroom.</p> <p>At the end of the course there will be a public event in which the final works will be presented and discussed with external guest critics (well-known experts, academics and managers of local government bodies). The teaching tools will be blackboard, video projector and group discussions.</p>



Methods and Criteria of Learning Assessment	<p><i>Student performance assessment methods:</i></p> <p><u>WORKSHOP</u></p> <ul style="list-style-type: none">- individual contribution to team work;- attendance of the workshops;- development of individual skills during the course. <p>Final judgment (excellent, good, sufficient) will be assigned.</p> <p><u>ORAL EXAMINATION</u> (duration of 20-30 minutes)</p> <ul style="list-style-type: none">- three / four questions related to the theoretical contents of the course, assessment of knowledge of the topics- discussion on the contents of recommended texts, evaluation of critical skills. <p>A final mark out on a scale 0-30 will be awarded to the oral exam based on the level of knowledge of the topics covered, the reasoning skills and the critical skills developed.</p> <p><i>Criteria used in the students' performance assessment:</i></p> <p>The final grade will be assigned on a scale 0-30, as a result of both parts of the exam (workshop and oral). The two portions of the exam have equal weight on the final grade.</p>
Textbooks and recommended reading	reference material provided during the lessons
Peer review	Prof. Massimo Zupi; Prof. Nic Pacini
Teaching timetable	http://diam.unical.it
Examination calendar	http://diam.unical.it
Examinatory commission	http://diam.unical.it



ESTIMATED STUDENT WORKLOAD				
	Lectures [hours]	Practicals [hours]	Laboratory [hours]	Individual study [hours]
BLOCK 1: TERRITORY AND SUSTAINABILITY <ul style="list-style-type: none">• Anthropocene• Effects of climate change and urbanization on the territory• ecological footprint• Natural Capital• Ecosystem Services	12			20
BLOCK 2: URBAN RENEWAL <ul style="list-style-type: none">• Re-naturalization of urban areas• Ecological network: green and blue infrastructures.• Ecological Urbanism• Nature Based Solution	12	12		24
BLOCK 3: SUSTAINABLE GOVERNANCE <ul style="list-style-type: none">• Agenda 21• collaborative governance	6			24
BLOCK 4: SELECTED CASE STUDIES <ul style="list-style-type: none">• Resilient Cities• Climate Plan• River Contract	6			20
Hours dedicated to soft skills				14
Reports/other homeworks				
Additional hours dedicated to final exam preparation				
TOTAL	36	12		102
OVERALL NUMBER OF HOURS	✓ 150			