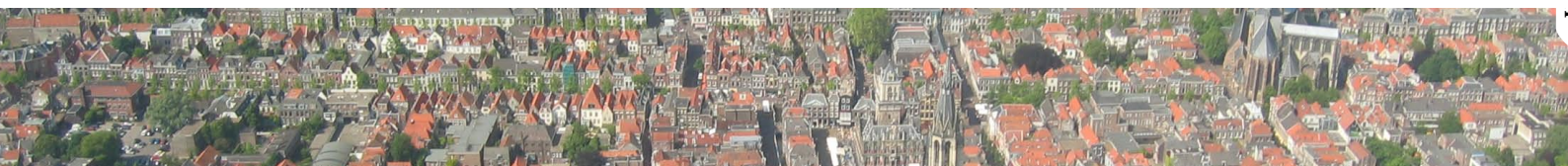
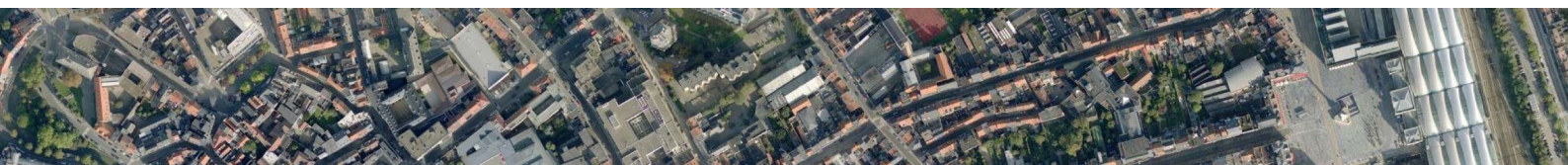


EUROPEAN POSTGRADUATE MASTERS IN **URBANISM**

STRATEGIES AND DESIGN FOR CITIES AND TERRITORIES



European Postgraduate Masters in Urbanism EMU

Introduction

The European Postgraduate Masters in Urbanism (EMU) is a joint program that aims to produce highly qualified, university trained urban designers, physical planners and researchers. The EMU program brings together the strenghts and richness of different design approaches and methods, and the long traditions and experiences in urban planning and design of each of the participating universities. The master course is design oriented and affirms the role of design in the knowledge process, while integrating different levels of scale. Learning by doing, research by design, and the project as knowledge producer constitute the key concerns and standpoints of this European postgraduate master's degree.

The consortium offers a two-year postgraduate master programme (120 ECTS), consisting of three core modules (30 credits/semester) and one module for a final research / design project (30 credits). Course participants must fullfill a minimum of two semesters at their host institution (the final/thesis semester must be completed at the host institution). A minimum of one semester or a maximum of two semesters should be completed at other institutions within the consortium.

The courses are conducted in English, although Spanish will be used in UPC Barcelona.

The program is conducted at four universities:

UPC Universitat Politecnica de Catalunya, Barcelona, Spain

TUD Delft University of Technology, Delft, The Netherlands

KUL Katholieke Universiteit Leuven, Leuven, Belgium

IUAV Universita IUAV di Venezia, Venezia, Italy

Composition of the program

1st semester host university	2nd semester possible exchange semester	3rd semester possible exchange semester	thesis semester host university
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The amount of possible exchange semesters varies between the four host universities, please contact the host universities for further information.

Semester programs

UPC

1) City Design: Urban Transformations Fall

2) Regional Design: Territorial Transformations Spring

KUL

1) Title semester 1

2) Title semester 2

TUD

1) The Networked City Region Fall

2) Constructing Urban Form in the Delta Spring

IUAV

1) Territories of dispersion: Situations, Scenarios Fall

2) Cultural Landscapes: Strategies & Descriptions Spring

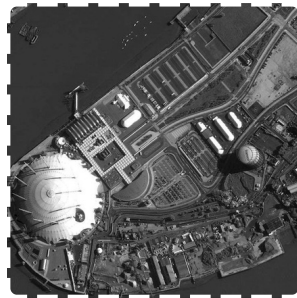
Key Issues

The Joint European Postgraduate Master Programme in Urbanism is focused on a set of key issues (to be periodically reviewed and up-dated) which reflect contemporary challenges within cities and territories. The issues frame the design studios and provide the students with a structure to orient their individual education tracks.



Territories of Dispersion

deals with the extended use of the territory, including new ways of working and living. New type of settlements, these territories need to rethink types and techniques of infrastructure.



Post-Industrial Sites

investigates obsolete and marginal urban areas that provide new opportunities for urban restructuring. The territorial scale, the notion of 'shrinking cities' requires rethinking of the notion of development.



Mobility and Network Cities

focuses on innovations and development in technology and infrastructural systems which allow for the reconceptualization of cities—such as urban polycentric regions, new centralities, urban agglomerations, city clusters, airport cities, etc.



Cultural Landscapes

deals with a number of issues, including conservation through transformation, planning based on revaluation of heritage resources and identity in relationship to globalisation.

The programme relies upon a series of steps in the design process common design approaches – the main operations through which research/design can be configured as knowledge producer.

- Research/design through Description
- Research/design through Conceptualization
- Research/design through Technical Interventions
- Research/design through Strategies and Scenarios

Description of the university:

The UPC Master's Degree in Urbanism is designed to train highly qualified professionals and to equip them to deal with dynamic and highly complex urban environments. The two semesters emphasize the physical form of interventions together and in close relation to other dimensions of planning, such as financial, social, environmental and technical aspects. Therefore, the studios, which are the backbone of the Degree, involve design exercises based on real case studies, which are carried out in close collaboration with the corresponding Administrations.

The central theme of the first studio is the interplay between new elements in contemporary cities. Students' projects relate the design of cities to their transformation over time and to the management of flaws in urban systems.

In the second studio the effect of large-scale infrastructure, new ways in which activities make use of space and the recognition of the territory itself as a criterion in planning are among the issues students' designs must consider.

City Design: Urban Transformations

This module deals with the characteristics and problems of European urban system. Studio will be combined with courses on Theory of urban project, Landscape and public space design, Environmental planning and Urban economics. Main issues to be considered will be the relation between environment and city, the arrangement of mobility flows (people and goods) in relation to the spatial distribution of urban activities; the design of new residential and productive tissues in reasonable compact cities; enhancing urban heritage and landscape or the improvement of spatial distribution of centrality values and public and private facilities. Barcelona or other main cities used to become relevant case studies.

Regional Design: Territorial Transformations

This module combines strategic approach and physical design, paying special attention to current territorial transformations. Studio will be combined with courses on Regional planning theory, Regional economy, Landscape ecology, Regional design methods and tools. Projects will be based on previously prepared information, so that students can rapidly get to grips with the subject matter and work on their proposals in depth. Main issues to be considered will be scenarios approach; new models and techniques to face territorial design; how to use heritage resources to improve local development; the importance of territorial morphology as a main design criterion; or how mobility and infrastructure should be addressed to help environmentally conscious regional development.

title	CITY DESIGN: URBAN TRANSFORMATIONS	REGIONAL DESIGN: TERRITORIAL TRANSFORMATIONS
key issues	Mobility & Network Cities Post Industrial Sites	Cultural Landscapes Territories of Dispersion
approach	research by design	territorial analysis, research by design
topics	mobility, land use, urban transformations, urban project	environmental design, mobility, regional dynamics, heritage resources, territorial project
studio		
site	urban central area	region with different settlements
focus	physical and functional local context r= 10m - 1km - 100km	physical interventions at a territorial scale r= 1km - 10km - 100km
method	explorative design, design driven research	territorial description and research driven design
products	urban project with crucial details	spatial development proposals, regional masterplan and projects with crucial details
way of working	large or small teams	small teams and individual
courses		
fields of knowledge	mobility, urban transformations, urban project	landscape ecology, mobility, territorial dynamics and physical design at territorial scale
theory	drivers behind mobility, urban transformations and urban design	regional design and territorial transformations
methodology	layering, simulation	layering, simulation, scenario construction
technology	GIS, 3-D simulations	design support systems

Description of the university:

Once an emblem of spatial planning and urban control our man made country is in confusion. How much influence do urbanists actually have on the way our 'world' works and looks like? Challenged by mighty powers as climate change and globalization, increasing complexity and spatial fragmentation the task is to reinvent urbanism. By finding new ways to steer spatial development in the right direction, sketching new yet open futures and thinking on their strategic implementation. Staff and students work on these urban challenges and try to innovate by design driven research. That makes these uncertain times especially interesting. In Delft the world can learn from the Dutch and the Dutch from the rest of the world.

The Networked City Region

This semester addresses the strategic role of urban planning and metropolitan/regional design for networked city regions. A specific emphasis is given to the role of mobility, transport and infrastructure for urban transformation and regional development.

The students investigate spatial development potentials at the regional scale, explain them through the analysis of social, economic, and technological driving forces, consider the implications for economic prosperity and social equity, and examine the potential for effective intervention through spatial planning and design.

Constructing Urban Form in the Delta

The semester will address the necessity of urban and landscape architectonic design of a new balance between urbanized area and landscape, and will consider the development of landscape-structures in the city as well as of urban settlements in the landscape.

The studio challenges the students to develop a new regional perspective for the project area, addressing the issues of de-industrialization, the need of new spatial and economic perspectives for the area, the new potential possibilities of the riverfront and docklands, the perspectives of new landscapes (agriculture and urban) the possibilities of urban agriculture and the necessity of a new organization of water-systems and flood-defense systems.



title	URBAN REGION NETWORKS	CONSTRUCTING THE SUSTAINABLE DELTA CITY
key issues	Mobility & Network Cities	Cultural Landscapes Post Industrial Sites
approach	top down	bottom up
topics	mobility & urbanization	landscape architecture, water management & urban transformation
studio		
site	subregion within a polynuclear urban region	border condition of urban and non-urban landscapes as part of a delta
focus	regional $r = 100 \text{ km} - \mathbf{10 km} - 1 \text{ km}$	local $r = 10 \text{ m} - \mathbf{1 km} - 100 \text{ km}$
method	rational and theoretical based design, research driven design	explorative design, design driven research
products	spatial development strategy	masterplan with crucial details as part of a regional strategy
way of working	large and small teams	individual and couples
courses		
technology	Design Support Systems <i>hands on lab</i>	Design and engineering <i>hands on lab</i>
methodology	Territorial Governance <i>lectures and seminars</i>	Research and Design <i>lecture series + paper</i>
theory	Body of Knowledge <i>book(s) + presentation, interpretation, debate</i>	The Sustainable City - Theories of Urban Design <i>book(s) + presentation, interpretation, debate</i>

Description of the university:

KUL's design studios are grounded in a strong tradition of urban analysis, the projecting of urban visions and framing of strategic projects. Studios and on-going international research complement one another and one track of the program focuses on contexts of rapid urbanization and limited resources.

Description semester 1

to be defined

Description semester 2

to be defined



	SEMESTER 1	SEMESTER 2
title		
key issues	to be defined	to be defined
approach		
topics studio		
site		
focus		
method		
products		
way of working		
courses		

Description of the university:

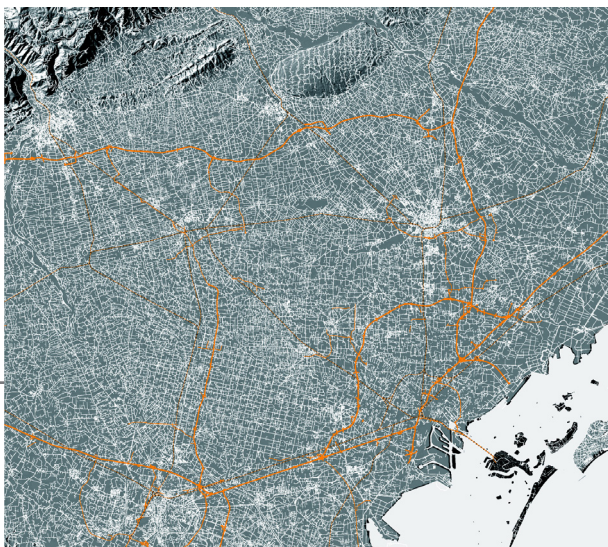
Innovation and tradition: the School of Venice has a long tradition of urban studies. The analysis and comprehension of the material conditions of production and transformation of the territory have been one of its main contributions. This research has revealed new objects of study and of design: from the ancient city and heritage valorisation, to the territories of dispersion as a new form of settlements. A contribution on the contemporary "architecture of cities and territories", innovating along the tradition, is the objective of the two semesters held in Venice. Design as knowledge producer stresses the analytical and conceptual dimension as a frame for a technically sustainable project. This means a relevant or even dominant consideration to the physical context and contemporary urban structures, tissues and environments coping modern needs with appropriate preservation and sustainability concerns.

The two semesters based in Venice are so structured:

- design studio, core of the semester, followed by a multidisciplinary team
- lectures and seminars (with internal and external contributions)

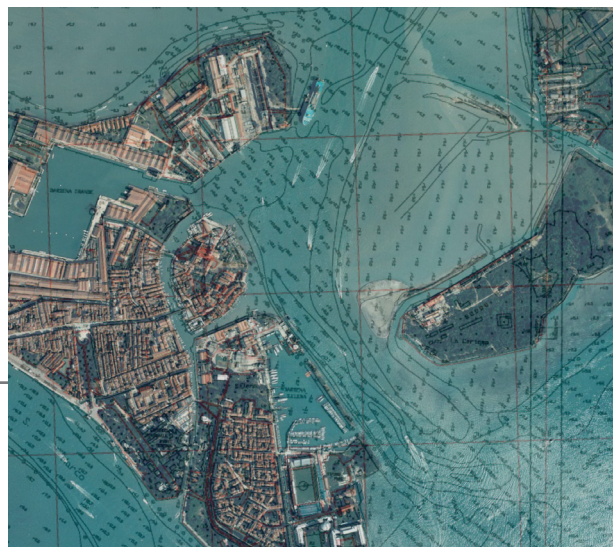
Territories of dispersion: Situations, Scenarios

The Design Studio will reflect on research/design through description and scenarios. The Italian territories of dispersion, the new form of the contemporary metropolis, are taken as a reference for comparison with other European or non European cases. The hypothesis that leads the Studio is that these territories are today facing a strong mutation. The Studio will observe and read places and territories in transformation, questioning them with different hypothesis about their future. Scenarios related to new way of living, moving, inhabiting the city and the territory will be explored to understand the ways in which the territories of dispersion have been, will and might be shared or conflictual resources and support of an innovative ecological project; looking for new representations of the territory as infrastructure and living place.



Cultural Landscapes: Strategies and Descriptions

Heritage cities and landscapes are a relevant concept born within modern architecture and urbanism. Their preservation for contemporary life is today one of the most exciting challenges for planners and designers since this requires: a) the development of sharp sensitivity to detect latent qualities; b) the feeding of a deep specific cultural background; c) the development of clever design skills to interpret patterns, spaces, forms so that their original concept is respected, but, at the same time, modern urban life finds the best possible shape and fascinating forms. The Design Studio will deal with the re-cycling of the former Actv dockyard to insert a new design in the thick landscape and historical palimpsest of Venice and its lagoon.



title	TERRITORIES OF DISPERSION: SITUATIONS, SCENARIOS	CULTURAL LANDSCAPES: STRATEGIES AND DESCRIPTIONS
key issues	Territories of Dispersion	Cultural Landscapes
approach	research/design through description and scenarios	research/design through description and strategies
topics		
studio		
site	Italian territories of dispersion	Venice
focus		
method		
products		
way of working		
courses		
fields of knowledge	fields of knowledge: the descriptive and hypothetical dimension of design	the design of cities and territories as "art of time"
instruments of design	layering, sampling, scenario techniques	"rilievo critico" (critical survey), the critical reading of space
tools of representation	photography, Gis and 3-D simulations	photogrammetry and 3-D representation
techniques of construction of cities and territories	landscape ecology, techniques of environmental control	landscape design

Admission Criteria

- Applicants must have distinguished themselves in their respective first professional degrees.
- Applicants should have at least a Master's degree or a five-year university education.
- Applicants must demonstrate command of written and spoken English.
- Applicants must submit a project portfolio, two letters of recommendation, a letter of motivation, transcripts of previous education and a curriculum vitae.

Divergent admission criteria apply concerning the requirements for the English test in the four host universities, therefore please check the admission criteria on the webpages of the four universities.

Deadline

For further information on enrollment deadlines and procedures please contact directly your preferred hosting institution.

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