

# UNISCAPE Research and Teaching

Università IUAV di Venezia

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- **DEPARTMENT(S) INVOLVED:** Department of Architecture and Arts (Dipartimento di Culture del Progetto)
- Department of Design and Planning in Complex Environments.

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## EDUCATION PROGRAMMES

### Bachelor or equivalent:

- Undergraduate Degree course: ARCHITECTURE: TECHNIQUES AND DESIGN  
Teaching Unit: LANDSCAPE ARCHITECTURE in the SECOND YEAR DESIGN STUDIO

- Undergraduate Degree course: PLANNING AND URBAN DESIGN  
LANDSCAPE AND RURAL POLICIES

### Master:

- Graduate Degree Course in ARCHITECTURAL DESIGN  
- City and Landscape Atelier (integrated studio)

### Post graduate | Specialization | Ph.D. :

- Postgraduate specialisation programmes - level 2 LANDSCAPE AND GARDEN ARCHITECTURE

- SSIBAP - Scuola di Specializzazione in Beni Architettonici e del Paesaggio (School of Specialization in Architectural and Landscape Heritage)

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## RESEARCH ON LANDSCAPE

main issues/ topics of research

### 01 The city as care and care of the city (PRIN 2015)

The project aims at identifying, in a proactive way, strategies that in Italy can facilitate and encourage active life as prevention of diseases through the adoption of correct lifestyles. Intercepting the orientations emerging from the international framework, the research aims to promote actions and pilot projects for innovative urban regeneration plans and programs, based on the recognition of the qualitative relationship between mobility of the person and psychophysical well-being. The pilot projects will be useful for the

construction of a document addressing the transformation and management of public space in Italian cities. The research, therefore, intends to act in parallel in environmental, social and economic terms, building a "protocol" of reference, which places environmental sustainability and active life at the center of urban requalification policies and actions.

Iuav operative unit is working on Landscapes of water from the Venice lagoon to the Brenta Riviera crossing Marghera. Insular Venice, for the unique urban structure based on slow mobility, contributes to the livability of open spaces reflected and the psychophysical well-being of its inhabitants. The historic center, like the surroundings, are not without critical points. Problematic realities require a sustainable transformation based on a clear vision of the future and a different design approach, more humanistic and transdisciplinary. The lagoon margins are areas of relationship between Venice and the metropolitan area. Green infrastructures could integrate ongoing or planned transformation actions, putting them into a system for regeneration of urban and industrial areas. Marghera will be the urban / industrial area to be redeveloped through green (or blue) infrastructures, path systems, places and architectures with a landscape connection between the lagoon and the Brenta Riviera.

## **02 GAMHer- Geomatics Data Acquisition and management for landscape and built heritage in a European Perspective (PRIN 2015)**

The project GAMHer aims at exploring and validating Geomatics algorithms, methodologies and procedures in the framework of new European regulations, which are going to require a more extensive and productive use of digital information, as requested by the Digital Agenda for Europe as one of the seven pillars of the Europe 2020 Strategy, which defines the objectives for the growth of the European Union by 2020. This has a strong connection with the Geomatics world, that has been always considered a multi-purpose discipline for a variety of applications requiring reliable and accurate digital metric information used by different specialists for scientific/industrial research and productive work.

To this aim GAMHer will focus on the need of a certified accuracy for surveying and monitoring projects with photogrammetry and laser scanning technologies, when used in a multi-scale and multi-level of detail approach for landscape and built heritage documentation, conservation, and management. Indeed, the basic need of a certified metric accuracy is sometimes neglected for the availability of the new strategies for data collection and processing, that have surely improved the 3D reconstruction pipeline in terms of time and manual efforts required. However, automation comes at a cost, i.e. a lack of certified accuracy, that can result in useless and crude reconstructions without metric integrity.

## **03 Production Landscape Architecture. (Research Unit)**

The Iuav research unit chose to use the term "Architecture and archaeology of production landscapes" rather than "industrial archaeology", in order to indicate that in this area of interest, more often than not focused on the historical and documentary value of a single product, the attention is particularly paid to the strategic asset role achieved by buildings and infrastructure systems which were once used for agricultural or industrial production, in relation to environmental contexts and landscapes that are being transformed.

While acknowledging that, unfortunately, there is a widespread and often harmful arbitrariness of transformation developments in relation to the value of production landscapes, the research unit is focusing on the identification of criteria and project tools capable of verifying the specificity that an architectural and landscape project may demonstrate in regenerating production sites with a recognisable cultural value.

This interest has led over the years to research focused on the relationship between certain production archaeology with common cultural heritage, part of a territory's identity, able to innervate and qualify it as an active resource, overcoming a logic of preservation implemented solely by turning sites into museums, which is increasingly difficult to achieve and manage because it is often unrelated to the social and economic needs of the places concerned.

In the context of these intentions, the group's research is organised with various activities primarily focused on four lines of investigation, mainly aimed at the development of a comparison between theoretical premises, relevant experience and project outcomes developed in academia and in the territory.

## 04 CULTLAND \_ Paesaggi culturali / Cultural Landscapes (ClusterLab)

The cluster CULTLAND collects scholars interested in cultural values, real or potential, embedded in all landscapes, urban or rural, central or marginal, exceptional, of everyday life and "degraded". In the framework outlined by the European Landscape Convention, in fact, the cultural value of the landscape becomes a decisive element for the wellbeing of the populations and the quality of the territories, an important driver of social and economic development (heritage led development, cultural tourism, etc.). scientific and design action at different scales, with the contribution of different disciplines, in close relation to the life of populations.

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### TOPICS

- WATER LANDSCAPE
- PRODUCTION LANDSCAPE
- HERITAGE
- RE-CYCLE
- CARE

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### BIBLIOGRAPHY

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