

SCHOOL OF "URBAN AND ENVIRONMENTAL REGENERATION", PEGASO TELEMATIC UNIVERSITY

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Modern times confront us with dramatic facts. Nature is rebelling against man, cities are imploding, and social degradation is reaching very high levels. Today urban regeneration is not enough, and deep regeneration is needed. Traffic congestion, pollution, construction speculation, energy waste, lack of security, waste, and the loss of the *urbis* form, are among the most common problems of today's cities, and only the planning of targeted and wise procedures can allow us to solve these problems.

Training, research, and environment are the three key words through which the rebirth of the country and economic recovery can take place and are the three foundations on which Pegaso Telematic Universities' school of "Urban and Environmental Regeneration" are based. Pegaso Telematic University school of Urban and Environmental Regeneration was established with the aim of training scholars, specialists, professionals, and technical operators in the fields of project, planning, and management actions related to the intervention on cities, the environment, and the territory, with detailed attention to the issues of sustainability and regeneration.

The school offers a wide and diversified education to allow the acquisition and use of methods, techniques and instruments at different levels of competence and specialization, in relation to the specific needs of the participants: High school graduates who are not yet enrolled in university courses; students already attending courses of study; under graduates; and graduate students.

Characteristics of the individual programs;

Level II Master's in Safety in Seismic and Hydrogeological Environment aim is to train post graduate students in various scientific disciplines with reference to calamities, disasters and catastrophes in the seismic, hydrogeological and environmental fields that constitute a constant omission in the history of Contemporary Italy. The Master's degree intends to provide the attending students with methods, techniques, and tools to deal with in terms of analysis and project the theme of the safety of people and material heritage in environments where there is a risk of seismic, hydrogeological and environmental events.

Curriculum focuses on the methods, techniques, and standards related to engineering projects, and addresses aspects related to other disciplinary fields that are related to the complex theme of land security, such as geological sciences and urban planning.

The specific objective is to train specialists in the use of analysis, diagnostics, simulation, design and intervention equipment in various fields of practice: Seismic, distinguishing the peculiarities of urban areas from those of historic centers and monumental buildings and still from those of the production settlements; Hydrogeological, articulating the contributions according to whether the theme of the slopes and landslides, hydraulic rods, floods, and coastal erosion; specific attention is then dedicated to emergency planning and naturalistic engineering in order to have an increasingly environmentally sustainable action. The Master's degree forms a figure of analyst-designer able to act in these sectors, as a freelancer, as a professional figure at various levels in public institutions or, as a scientific operator within the various agencies that address national and regional thematic issues.

Level I Masters' in Valorization of Cultural Heritage is aimed at training technicians in the enhancement of cultural heritage using multimedia tools and techniques and responds to the widely felt need to support actions for the preservation and conservation of cultural heritage with a focus on archeological and architectural actions thus allowing its use by citizens and, at the same time, contributes to increasing economic value. Given the multidisciplinary nature of the course, the training path is based on a wide spectrum of disciplines: architecture, archeology, construction engineering, economics, law, and information technology;

The curriculum consists of: History of Modern Architecture, Architectural Design, Archeology and Archaeological Parks, Law of Cultural Heritage, I.C.T., Cultural Heritage and, European Funding Programs. The Master's degree forms a figure of technical operator able to intervene in the different areas of cultural heritage enhancement: archaeological parks, museums, artifacts, and essential archeological structures.

Level I Masters' in Urban Regeneration and Environmental Sustainability is consistent with the effort of getting past the phase of urban expansion and environmental degradation, to enter the new phase of regeneration of existing assets and environmental sustainability. This Master's degree is aimed at specializing graduates in Civil and Environmental Engineering, Architecture, Urban Planning and related disciplines, in the field of design and implementation of recovery, restoration, redevelopment and renovation of the building heritage and urban environment, complying with the canons of

sustainability. The training course is centred on the skills of Civil Engineering, Architecture and Urban Planning, combined with the necessary knowledge of current laws and rules.

The curriculum consists of: Regeneration Foundations and Experiences, Technologies of Building Restoration, Energy Planning of Buildings, Management of Environmental Resources, Procedures and Techniques of VIA and VAS, and Regulatory of Urban and Environmental Planning.

Advanced Training in Building and Urban Interventions Techniques is a course aimed at providing participants with the knowledge of technical and regulatory tools used to design and implement building and urban planning interventions: new buildings, completion of buildings, urban restructuring, and extraordinary maintenance. Our goal is to train an expert technician in the field of planning and development of buildings and urban interventions, able to operate both as a freelance professional and in a public or private technical structure.

Advanced Training in Energy Efficiency of Buildings is a course aimed at providing participants with the technical skills and tools necessary to implement building interventions based on the principle of eco-sustainability and energy efficiency. Our goal is to train a technicians to intervene in the processes of assuring energy adjustments and eco-sustainability of buildings. Attending students who pass the Course are given the qualification of "A.P.E. Energy Certifier" and expert in "ISO 14001 Environmental Certification".

The school is more than just an important educational opportunity: the teachers themselves - academics and professionals - together with the graduates from the Masters' program share a series of articulated skills that are made available to public institutions, starting with local institutions, in order to begin good regeneration practices, such as those that are already operational in some Italian communities.

Cosenza, where the school participates in a program that puts on the internet many specific experiences of regeneration, both already realized and in progress.

Crotone, where the school has a regeneration project in the area of ancient Crotone and disused industrial wastelands.

Montepulciano uses joint research with the local administration to revive tourism and limit ecological impact on the city.



In conclusion, the school website also has an important role by informing and training the population and serves as a venue that all interested parties can use to present their experiences, compare their observations, and exchange common know-how.