UNIVERSITÀ DEGLI STUDI DELL'AQUILA

BP blended intensive program Erasmus+

EULiST

DICEAA Dipartimento di Ingegneria Civile, Edile-Architettura e Ambientale

Dipartimento di Ingegneria Civile, Edile-Architettura e Ambientale — DIPARTIMENTO DI ECCELLENZA — MUR — 2023-2027

Risk and recovery of vulnerable territories

18-21 June *online lectures* | 7-13 July 2024 *On-site workshop*

PARTNERSHIP

University of L'Aquila - UNIVAQ
Civil, Construction-Architectural and Environmental Engineering

Cracow University of Technology - CUT
Architecture

École Centrale de Marseille - ECM
Engineering

Universitat Politècnica de València - ETSIE
Escuela Técnica Superior de Ingenierìa de Edificaciòn

PROGRAMME OBJECT

The subject of the programme is related to climate change and its effects on territories that already present levels of vulnerability linked to different types of risk (seismic, hydraulic, hydrogeological, health, social, etc.). It is a typically multidisciplinary theme involving areas of civil and environmental engineering and architecture.

EDUCATIONAL OBJECTIVES AND DESCRIPTION OF ACTIVITIES

The programme aims to provide participants with basic knowledge on the theme of risk and vulnerability of territories, with particular reference to their analysis and tools for territorial recovery and risk reduction. The field is multidisciplinary and multiscale, and therefore topics related to specific elements such as buildings but also to territorial elements, as well as urban and regional management and planning strategies, will be addressed.

The programme provides a 7-days workshop (2 days of travel, 5 days of work) and an introducing online lectures module (first part) dedicated to the description of one or more case studies related to vulnerable territories, management strategies and techniques for the recovery of such territories.
In this first part, the theme of the in-person workshop will also be introduced and basic knowledge will be provided. The second part will be held in L'Aquila, in a highly vulnerable territory, and will be devoted to project proposals for vulnerability and risk reduction.

CONTENT - LEARNING OUTCOMES

Online lectures by academics and teaching staff from partner universities on case studies of projects and recovery plans in vulnerable and at-risk areas. A lecture will be dedicated to describing the on-site workshop, and materials will also be provided.

On-site workshop, which includes the following activities:

- visit to the study and project area and description of the activities;
- autonomous work by students divided into groups and with multi-disciplinary approaches, on exercises on recovery in vulnerable and at-risk areas.
- review by tutors and professors of the universities present in L'Aquila;
- presentation of the workshop results to universities, public authorities and citizens, with the awarding of a prizes.

Students will work with experts in the field of climate change, urban and territorial vulnerability and risk, planning and risk management. The fields of study and project are those of civil and environmental engineering, architecture and planning.

Participants will acquire new skills on natural and anthropogenic risks, urban and territorial vulnerabilities and pre-disaster recovery planning, learn to use new methodologies and develop a new mindset that will contribute to achieving the SDGs.

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CENTRALE MARSEILLE

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CASE STUDY AND PROJECT CONTENT

The case study will concern a vulnerable inner area of the Abruzzo Region, the Roveto valley in its contact with the Fucino plain, and in particular the territorial, environmental and landscape context of the municipality of Canistro.

The project to be implemented in the workshop will cover the following three phases:

• data collection and geographical context analysis, with an in-depth study on the impact of natural and anthropic risks, which may be organised both with reference to the components at the spatial scale and to the building or neighbourhood scale;

• setting up of the SWOT analysis - Strengths, Weaknesses, Opportunities, and Threats;

• preliminary suggestions for design solutions aimed at the recovery of the territory and the settlement. These suggestions will be based on research of case studies carried out in the students' home countries.

The students will be organised into groups, with members from different backgrounds and expertise, who will be supervised by tutors and professors from the universities participating in the BIP.

GENERAL PLAN

ONLINE LECTURES PLAN

The lectures will be held online on the University of L'Aquila's Microsoft Team platform, with 45-minute modules.

18 June 2024 - 14:00-17:00 CEST
Introduction to the BIP topic and case study / Valle Roveto and Canistro
Donatella Dominici, Donato Di Ludovico, Sara Zollini

19 June 2024 - 14:00-17:00 CEST
The concept of recovery in vulnerable areas/ workshop tools
Donato Di Ludovico, Matteo Abita, Giovanni Migliaccio

20 June 2024 - 14:00-17:00 CEST
French and Polish case studies of recovery in vulnerable areas
Pierre Javelle, Bartosz Dendura, Urszula Forczek-Brataniec, Anna Porębska

21 June 2024 - 14:00-17:00 CEST
Spanish and Italian case studies of recovery in vulnerable areas
Luis Palmero Iglesias, Luis Cortés, Lorena Fiorini

LANGUAGE

English (B1)

ON-SITE WORKSHOP PLAN

7 July 2024		Arrive
8 July 2024	9:30-10:30	Welcome and briefing
	10:30-17:30	Visit to Canistro and its surroundings (Roveto valley)
9 July 2024	9:30-10:00	Forming student groups
	10:00-17:30	Data collection
10 July 2024	9:30-13:30	Data collection
	14:30-17:30	SWOT analysis
11 July 2024	9:30-13:30	SWOT analysis
	13:20-17:30	Early project suggestions
12 July 2024	9:30-13:30	Early project suggestions
	14:30-17:30	Work presentation, discussion, awarding of certificates
13 July 2024		Departure

The first day, 8 July, will be dedicated to visiting the case study area, the Valle Roveto, some 70 km from the city of L'Aquila.
From 9 July to 12 July, the students' work will take place in L'Aquila, at the engineering campus in Monteluco di Roio.

RESPONSIBLE PARTNERS

UNIVAQ: Donatella Dominici, Donato Di Ludovico (coordinators)
CUT: Anna Porębska
ECM: Olivier Boiron
ETSIE: Luis Palmero Iglesias

contact:
donato.diludovico@univaq.it

UNIVAQ ORGANISING COMMITTEE

Donatella Dominici, Donato Di Ludovico,
Giovanni Migliaccio, Sara Zollini,
Matteo Abita, Lorena Fiorini

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