



European Union Neighbourhood Instrument for the Republic of Moldova

Training course on
**ARCHITECTURAL
CONSERVATION**

September 2018 - July 2019

PROGRAMME DESCRIPTION



Twinning Project MD 13 ENPI OT 01 16 (MD/26)

“Support to promote cultural heritage in the Republic of Moldova through its preservation and protection”

BACKGROUND INTRODUCTION

Over the decades, the scope of architectural conservation has expanded, moving its focus from individual artefacts to towns, landscapes, territories or systems of objects up to related production processes and bodies of knowledge. We have gained clear consciousness that historic heritage nurtures the sense of identity of individuals and societies and actively participates in the construction of our future. Besides, we are slowly understanding that the retention of the qualities of our built environment cannot be attained only by focussing on 'heritage products' but requires that adequate strategies be set up also at the territorial, social and economic policy level.

At the same time, the need for sparing economic, territorial, environmental resources, due to the energetic crisis and to the fragile ecological situation, has provided additional reasons to sustain the safeguard of our built environment, which should be harmonised with more 'traditional' motivations which may sometimes be at odds with the latter. Sustainable development concerns also pose new technical challenges, i.e. integrating technical equipments for the exploitation of renewable energy

resources or designing new edifices or construction components according to reinterpreted, ancient but already 'eco-friendly' buildings principles, which require specific competencies to be tackled with.

These new challenges, though, do not imply that 'old' questions and issues, such as why, how and to what extent to intervene on existing architecture, have been solved or have lost their relevance. On the contrary, ever than today it is crucial that professional dealing with the built heritage are equipped with cultural, intellectual and technical tools.

In this complex and evolving situation, to succeed in conserving our historic built environment, conservation professionals need to develop new competencies and capabilities that go beyond technical skills, which, however, see their importance increased.

The Twinning project is aware of these challenges and has therefore included in its programme of activities an intense training course in order to assist professionals of the Republic of Moldova to deal with these issues and challenges.



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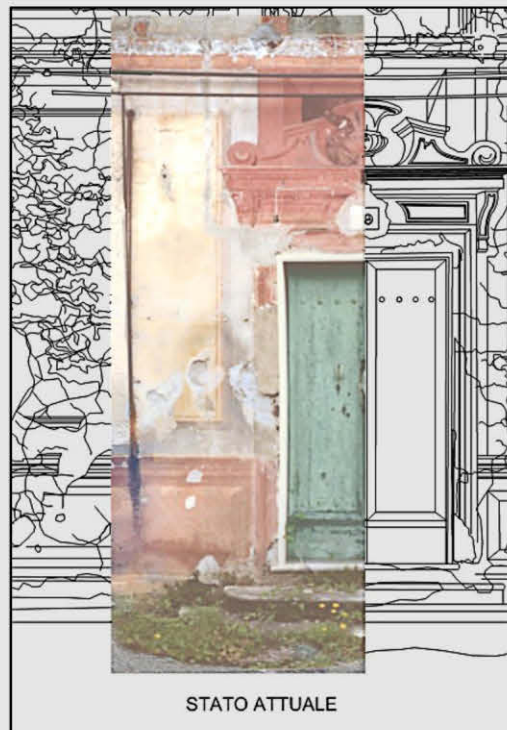


Image source: Scuola di Specializzazione dei beni Architettonici e del Paesaggio - Università di Genova

GOALS OF THE TRAINING

This course aims at providing the basilar knowledge that is necessary to develop a project of conservation/ restoration on existing buildings and to build the technical and cultural competences that are indispensable to approach correctly the intervention on the existing buildings through a real case study. Preliminary elements of knowledge regarding urban and landscape conservation will also be included.

The training course assumes that the conservation of our built heritage is a cultural choice before being a technical action. According to this vision, the course intends to offer to participants some methodological and technical tools that enable them to face contradictions, problems and challenges of cultural heritage conservation and management with increased cultural awareness and enhanced technical competence.

Giving centrality to the project allows develop at the same time both highly specialised technical skills and general but crucial competencies, such as: being able to govern multiple objectives; being able to elaborate a synthetic vision and to manage the analytical path; being able to make decision in uncertain conditions while taking responsibility and make explicit the criteria of any made decision.

OBJECTIVES OF THE TRAINING

The training offers the professional an in-depth study on different disciplinary themes that interact in the restoration field, able to increase its ability to:

- understanding the architectural structure, through its geometries, construction materials, surfaces, construction techniques, the transformations that the building has undergone over time, relating the results of historical reconstructions and those of archaeological analysis;
- be able to assess the state of conservation of the building, identify the causes and extent of damage, as a whole and in its individual parts, recognizing phenomena of deterioration, damage, failure, deficits that affect materials, elements and structures;
- know the conservation techniques, and the issues of/approaches to structural consolidation and those related to the insertion of the plants on historic buildings;
- consciously and critically use the results of the analytical and diagnostic phase in the drafting of the project, in the definition of objectives and strategies;
- draw up a restoration project that explicitly states the criteria of any made decision.

STRUCTURE OF THE TRAINING COURSE

To achieve these goals, the proposed training is articulated into two parts.

The first is dedicated to the acquisition of knowledge and envisages theoretical and field lectures and forms the basis for the second part, which is dedicated to the development of competences, focussing on the development of a concrete project up to the definitive phase.

The training therefore is built around one real case study. The overall amount of the training course includes lectures and experimental activities.

The course will accompany the professionals in the concrete application of what will be learnt through the development of a conservation project on a small structure, or part of it. On this building, or part of this, the participants will carry out the whole process of knowledge, analysis and designing the conservation intervention.

The content and articulation of the courses envisages the acquisition of knowledge and competences on:

- **The knowledge of the building: inspection, geometric survey, identification/recognition of building materials and construction techniques**
- **The knowledge of the building: the historical/ archival sources, archaeology applied to architecture, degradation phenomena of the materials and building components, structural problems**
- **The conservation/ restoration project, design project, conservation approaches, methodologies techniques**
- **Structural consolidation, seismic rehabilitation methods, technical installations in historic buildings**
- **Economic evaluation of conservation works, technical and economic specifications, contract and tender documents, restoration building site**

While the programme of the lectures follows the logical path “from analysis to intervention”, in order to provide the disciplinary and technical tools necessary to develop the project, the organisation of the project exercises follows a slightly different path, which tries to take into account the mental processes through which choices are made in order to develop and refine logical and professional abilities.

In particular, the following competences are considered important to be built:

- **To develop the capacity to elaborate a synthetic vision;**
- **To develop the ability to give hierarchy to the problems to be solved;**
- **To develop the consciousness that the technical aspects are not neutral but oriented by theoretical perspectives;**
- **Finally, to develop the ability to motivate and to take responsibility of the made choices in respect of explicit criteria previously identified actions, contract and tender documents, restoration building site.**



TARGET AUDIENCE

Employees of technical offices in Ministries and related Agencies, teachers and lecturers VET and HE institutions, graduated in architecture and engineering.



NUMBER OF PARTICIPANTS

Up to twenty participants, following a call for application and a selection process.



TEACHING TEAM

The teaching team includes a core team with experts from Italy (Member State) and a group of resource persons that includes experts from the Republic of Moldova (Beneficiary Country).



DURATION

One week per month from September 2018 to July 2018, for a total amount of 300 hours, articulated as follows:

- A. 140 hours of lectures (in classroom and in the field)
- B. 75 hours of controlled joint work (3 weeks dedicated to exercise)
- C. 85 hours of personal work (on the project)

Registration of presence is envisaged. The certificate of attendance will be assigned only if participant can demonstrate at least 70% of participation for each module A and in B and following the successful passing of the test.

Didactic activity will be concentrated in one week per month, for 8 months. During the week, lectures will be held in half a day (preferably in the afternoon – from 13.30 to 18.30 – only one day per week also the morning will be occupied by field visit/ inspection for a total of 28 hours per week. Distribution of lectures per week can be adjusted to preferences of the participants, without diminishing the total number of the hours.

At the end of the course it is expected that the attendees will have elaborated a project of conservation with the necessary technical and economic documentation at the definitive level on one small building/ structure.

The training will be free of charge.



ELIGIBLE CANDIDATES

Graduated in architecture, constructions, building engineering, archaeologists.



APPLICATION DEADLINE

31 August 2018.

Selected candidates will be invited for a colloquium to be held in the first week of September.

To apply please fill the [online application form](#).

For additional information, please contact Marcela Esanu, RTA assistant +373 68 555 047, esanumarcela@gmail.com.

Images: Crafts and specialized works

Source: Scuola di Specializzazione dei beni Architettonici e del Paesaggio - Università di Genova

ARTICULATION OF THE TRAINING

1ST WEEK

24 - 28 SEPTEMBER 2018:

The knowledge of the building: inspection, geometric survey, identification/recognition of building materials and construction techniques

- The subject of conservation restoration: a look at its history and theories; **5 hours**
- The geometries of buildings: survey for conservation; **8 hours**
- Recognize building materials and components, their construction and processing techniques, installation ; **7 hours**
- Inspection: first contact with the building to be recovered; **3 hours**
- Legal protection of cultural heritage; **5 hours**

2ND WEEK

22 - 26 OCTOBER 2018:

The knowledge of the building: the historical/archival sources, archaeology applied to architecture, degradation phenomena of the materials and building components, structural problems

- The history of buildings: historical sources and the archeology of architecture; **7 hours**
- Recognize and assess the phenomena of degradation and decay; **7 hours**
- Recognize the structural behavior and conception of traditional buildings, understand structural instabilities, learn analysis and diagnosis techniques; **6 hours**
- Site inspection; **3 hours**
- Urban planning and conservation; **5 hours**

3RD WEEK

3-7 DECEMBER 2018:

The conservation project, design projects, conservation techniques

- Conservation techniques; **10 hours**
- The conservation project, compatibility with the current function, characters of the available spaces and the necessities of conservation; Interdisciplinary coexistence, drafting of the executive documents; **10 hours**
- Site inspection; **3 hours**
- Protection, conservation and management of landscapes; **5 hours**

4TH WEEK

28 JANUARY -
2 FEBRUARY 2019:

the project of structural consolidation, the seismic problems and rehabilitation, inserting technical installations in historic buildings

- The design of the structural project: consolidation of historical buildings; **8 hours**
- Conservation project and seismic problems and rehabilitation; **7 hours**
- Designing the technical installations for historic buildings; **5 hours**
- Site inspection; **3 hours**
- Elements of enhancement and management of built heritage; **5 hours**

5TH WEEK

25 - 29 MARCH 2019:

*Economic evaluation/
estimation of conservation
works, tender documents for
conservation works,
conservation building site*

- Estimation and economic evaluation of conservation works;
- Procurement of conservation works;
- Conservation building sites;
- Site inspection;
- IT applied to the conservation project.

*7 hours
6 hours
7 hours
3 hours
5 hours*

6TH WEEK

15 - 20 APRIL 2019:

Elaboration of the project

25 hours

7TH WEEK

20 - 24 MAY 2019:

Elaboration of the project

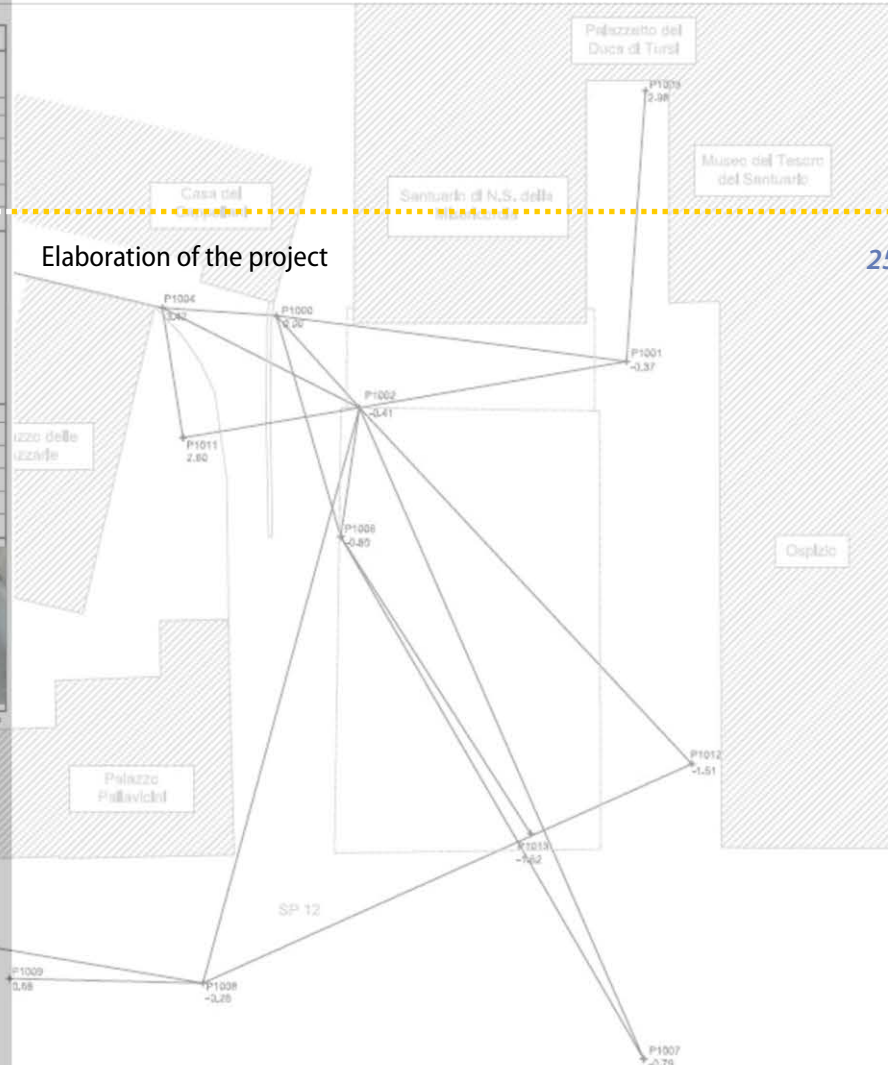
25 hours

8TH WEEK

17 - 22 JUNE 2019:

Elaboration of the project

25 hours



Background image: Survey.
Source: Scuola di Specializzazione dei beni
Architettonici e del Paesaggio - Università di
Genova.