







PERPETIELSI SRL
[ROMANIA]





EDICULA

Educational Digital Innovative Cultural heritage related Learning Activities

Project Code: 2020-1-EL01-KA203-079108

Intellectual Output: 02 EDICULA Curricula Reformation

Deliverable: D2.1 - Design of the curricula reformation for each Master Program

Lead Organization: Sapienza University of Rome

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1 INTRODUCTION

1.1 | OUTPUT 2

EDICULA project aims to reform the curricula of three post graduate programs in the field of Cultural Heritage, to permit their graduates, despite their discipline, to commonly respond to the need to face grand challenges and risks in complex environments. The parallel and complementary approach to the reformation of specific courses in these Master Programs, promotes the need for harmonization for the future creation of a Joint transdisciplinary Master Degree in the field of Monument Rehabilitation and Conservation.

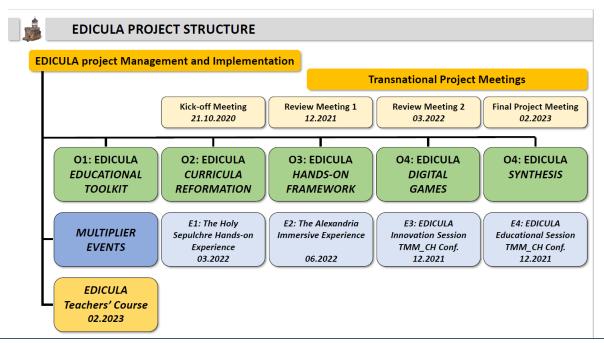


Fig. 1.1 | EDICULA Project Structure (EDICULA Kick-off Meeting 21.10.2020 Presentation)

The second output is (hereafter O2) – **EDICULA Curricula Reformation** requires the participation of the Executive Boards of the three participating Post Graduate Master:

- NATIONAL TECHNICAL UNIVERSITY OF ATHENS (NTUA) Post Graduate Program in "Protection of Monuments"
- SAPIENZA UNIVERSITY OF ROME (UNIROMA1) Post Graduate Program in "Science and Technology for the Conservation of Cultural Heritage"
- BEZALEL ACADEMY OF ARTS AND DESIGN (BEZ) Post Graduate Program in "Urban Design" together with the Conservation Unit in the Department of Architecture"

In particular,

NTUA Post Graduate Program in "Protection of Monuments" is focused on Methodologies for the conservation and interventions.

It consists of two directions:

- (A) Conservation and restoration of historic buildings and sites", organized by the NTUA School of Architecture, and
- (B) Materials and conservation intervention", organized by the NTUA School of Chemical Engineering.

The interdepartmental character of the program has been very decisive for its interdisciplinary character.

UNIROMA1 Post Graduate Program in "Science and Technology for the Conservation of Cultural Heritage" is focused on the scientific approach in the analysis of CH. The course aims at training researchers and experts in the field of CH conservation and archaeometry to analyze conservation problems and to detect deterioration processes, based on the physical, chemical and structural properties of materials, as well as to identify any possible remedies.

BEZ Post Graduate Program in "Urban Design" is focused on documentation and knowledge based design. It is a multi-disciplinary program, building on the knowledge based design project, with the objective of enriching the quality of the environment in cities through innovative design that relates to the theoretical study of the spatial structure of the form of the city.

In addition, WP2 is connected with Multiplier Event E4 and the Teaching Activity.

The final goal of O2 is to blend the different competences of these Master Programs, through the **REFORMATION OF DIVERSE, YET COMPLIMENTARY, EXISTING MASTER COURSES**, in order to address the needs of students from different scientific backgrounds and different professional dynamics.

O2 also aims to cover the **EDUCATIONAL NEEDS FOR EMERGING PROFESSIONAL PROFILES OF SCIENTISTS IN THE PROTECTION OF MONUMENTS** since new roles and responsibilities among diverse disciplines (i.e., architects, engineers, archaeologists, conservators and natural scientists) are required in the post industrial era for sustainable development

1.2 | TASK 2.1

O2 of the EDICULA Project consists of three tasks:

Task 2.1	Postgraduate reformation										
Task 2.2	Doctoral reformation										
Task 2.3	Dissemination activities of the curricula reformation										
The task duration is reported in the following table:											

Task 2.1																		
Task 2.2																		
Task 2.3																		

Task 2.1 **Postgraduate reformation** in its turn is divided to three stages:

Task 2.1 Postgraduate reformation

Stage 1	The design phase for each Master Program (M1 M12)
Stage 2	The implementation phase of the reformed courses in the curricula of the three MSc (M13 M24),
Stage 3	The evaluation phase to assess the level of trans disciplinarity and the complementarity of the nine reformed courses, so that the reformed courses will lead to the promotion of a Joint Master Degree in the field of monuments' rehabilitation (M13 30)

1.3 | DELIVERABLES

Seven Deliverables are assigned for O2:

D2.1	Design of the curricula reformation for each Master Program
D2.2	Outcomes of the nine (3x3) reformed courses
D2.3	Evaluation report of the reformed courses
D2.4	Assignment of the three doctoral theses
D2.5	Annual progress reports on the three doctoral theses
D2.6	TMM_CH21 Special Educational Session
D2.7	Proceedings of the TMM_CH21 Special Session

2 | DELIVERABLE 2.1 DESIGN OF THE CURRICULA REFORMATION FOR EACH

MASTER PROGRAM

O2 aims to cover the educational needs for emerging professional profiles of scientists in the protection of cultural heritages since new roles and responsibilities among diverse disciplines (i.e., architects, engineers, archaeologists, conservators and natural scientists) are required in the post-industrial era for sustainable development. According to the pillars of Erasmus +, education activity the program must be at an international level and the approach to conservation must be aligned among the European countries.

Task 2.1 Design of the curricula reformation for each master program was to some degree affected by the pandemic crisis in the context of disrupting the academic activities.

Stage 1 of Task 2.1 regarded the design phase for each Master Program.

NTUA postponed the 2021/22 call of their Post Graduate Program, pending an overall review and reassessment of its curricula by its Executive Board. Some selected courses may be offered in the framework of integrated seminar cycles to evaluate the possible courses to consider in the new Master Program.

UNIROMA1 approved the didactic plan for the academic year 2021/22 for their Post Graduate Program, to include two new compulsory courses (each with 9 ECTS), and one optional (6 ECTS): Basing on the topics, the syllabus and the laboratory activities, the subjects identified for the new

Master Program are:

- "Applied geosciences and bioconservation laboratory" and
- "Plant biology and conservation for cultural heritage" (9 ECTS)

as possible core subjects;

- "Introduction to thesis and practical seminars" and
- "Climate risk assessment" (6 ECTS)

as possible optional subjects. The final choice will depend on the subjects identified by other Masters. The subjects will **adapt the syllabus to the transdisciplinary collaboration** with an open-minded scientific specialization approach. This will be obtained by merging multidisciplinary theoretical and practical education, through laboratory and on-site surveys, experimental courses and educational visits and the elaboration of innovative postgraduate theses.

BEZ is opening two new tracks in the Master Program in Urban Design which one is - Conservation and Heritage Track. The Master Program in Conservation and Heritage offers to examine the increasing importance of preservation as an integral component in the field of urban design and planning of the city, from a critical approach to the conservation activities and the essence of conservation in the urban space.

LA SAPIENZA

LM-11 SCIENCE AND TECHNOLOGY FOR THE CONSERVATION OF CULTURAL HERITAGE

ECTS	SSD
9	_
	6 - BIO/02
	3 - CHIM/12
9	_
	6 - GEO/09
	3 - CHIM/12

CLIMATE RISK ASSESSMENT OF CULTURAL HERITAGE	6	FIS/06
INTRODUCTION TO THESIS AND PRACTICAL SEMINARS	6	
Module 1		3 - CHIM/12
Module 2		<i>3</i> - BIO/02
TOTAL	30	one semester

First three courses are new (the first two are compulsory for all the enrolled students from a.a. 2021/22) and syllabus are still fluid to be modulated on EDICULA needs. The four core scientific disciplines are represented and the focus is on conservation on stone and cellulosic materials, biodeterioration, problems connected to climate change and outdoor/indoor environment.

The last course is an "open box" with a general part about good practices in presenting a project and writing a scientific text (2 ECTS) and a second part dedicated to excursions and hands on experiences (so far carried out on Italian archaeological/historical sites such as Pompeii, Herculaneum, Ravenna, Deruta, Cerveteri, Tarquinia and excavation sites such as Pyrgi and Castrum Novum) eventually available to be filled with contents related to Holy Sepulchre.

September 2021