



Degree course	Master Degree in Architecture – Class LM-4
Course code	ARM80
Lecturer	Angela Quattrocchi
Course name	Integrated Course of “Restoration” Theories of Restoration - Architectural Restoration
Disciplinary area	B
Disciplinary field of science	ICAR/19 – 08/E2
University credits - ECTS	10 credits (4+6)
Teaching hours	100
Course year	4°
Semester	yearly

### Synthetic description and specific course objectives

The educational objectives of the Class LM4 (Class of Master Degree of Science in Architecture and Architectural Engineering), as defined by Directive 85/384/EEC and its recommendations, including in depth knowledge of the history and conservation of the theoretical scientific, methodological and operational architectural conservation.

The Master Degree in Architecture, divided into three cycles, leads to the second (3rd and 4th year) training and testing of synthetic application experiences related in particular to the knowledge that characterize the architectural profession. In fact, except for the technical part which can be designed by the engineer, it is up to the architect, in an exclusive design of the building works of considerable artistic and historical interest and artistic bound or not.

"In the field of restoration content-disciplinary scientific concern: the theoretical foundations of conservation and restoration are generally understood, also seen in their historical development, the search for the critical understanding of figural texture and material of the monuments in their complex temporal stratification, the 'analysis and identification of degradation phenomena and their causes, in view of the subsequent actions of protection, the methods and processes for the design and conservation work to building scale, of archaeological remains, historic park or garden, the old town, territory and landscape assets, and for the maintenance, rehabilitation, consolidation and renovation of historic buildings. "

### Course entry requirements

For the understanding of the topics you need to have basic knowledge of the techniques of architectural and History of Architecture in its diachronic development from classical to modern, as a result, the course is a preparatory examination in History of Architecture modern.

### Course programme

#### General objectives of the course Theories of Restoration: 4 Credits

Specify and provide the theoretical and practice today that outline the discipline of the Restoration and its relationship with the architectural project. It also proposes the critical reading of some restoration work is significant to trace the theoretical premises and to assess the formal results and the relationship between

history, restoration and architecture.

The Program.

Etymologies and meanings of the terms "restoration", "restore", "conservation", "maintenance", "recovery", "protection". Concepts of "monument", "heritage" and "cultural heritage".

Introduction to the concepts of "chronological time", "diachrony" and "synchrony".

The story of the restoration of monuments in relation to the general history of the restoration of works of art.

The restoration project as the pre-existence: from the classical to the seventeenth century.

The neo-classical period and archaeological restoration.

The issue of "protection" in the pre-unification Italian. The organization of the protection in France.

Quatremère de Quincy. Stylistic restoration. France and Italy. E. E. Viollet le Duc.

The movement antirestoration John Ruskin. W. Morris and S.P.A.B. The philological restoration. C. Boito.

The historic restoration. L. Beltrami. The question of values. Alois Riegl and Max Dvorak.

Gustavo Giovannoni and restoration science. The Conference of Athens. The restoration between the two wars. The critical restoration.

R. Bonelli and R. Bread. The Venice Charter of 1964. Cesare Brandi's Theory of Restoration and the Charter of 1972. The pure preservation. The manuals of practice of restoration.

### General objectives of the course of Architectural Restoration: 6 Credits

The theme of the course is the restoration project in its relations with the analytical phase and the concrete actions to be implemented on the building. The content will be carried out in class, intended for theoretical insights, and exercises on a specific architectural restoration project.

The Program.

Historical research for the restoration: the direct and indirect sources, detection, etc. photo.

The main current theoretical positions. Reversibility and minimal intervention.

The traditional building materials: stone and ceramic materials, binders, coatings, wood.

The processes of deterioration: moisture, chemical and physical degradation and main structural instability.

Diagnosis and investigations deterioration.

The restoration of materials and surfaces: the treatment of stone surfaces, curtains brickwork, plasterwork and paintwork. Basic Principles on the interventions of static character and introduction to modern materials.

### Expected results

The aim of the course is to provide the critical tools and methods for the design choices responsibly assume most appropriate and suitable for the conservation and restoration of historical architectural heritage.

### Course structure and teaching

Lectures (hours / year in the classroom): 60 hours

Exercises (hours / year in the classroom): 40 hours

### Student's independent work

The course includes a component of self-employment of the student, outside of teaching hours delivered, in part, dedicated to the study of the program carried out in the lessons of Theories of restoration and in part to the realization of the drawings of a restoration project of an artifact town.

### Testing and exams

The examination of the course is set up as a single exam that includes the verification of the theoretical program theories of the restoration and the exhibition and presentation of the drawings of architectural

restoration as a result of the application part of the course.

### Suggested reading materials

Selected bibliography:

Brandi C., *Teoria del restauro*, Torino 1977.

Bruschi A., *Introduzione alla storia dell'architettura. Considerazioni sul metodo e sulla storia degli studi*, Milano 2009.

Carbonara G., *Avvicinamento al restauro. Teoria, storia monumenti*, Napoli 1997.

Fiorani D., *Restauro architettonico e strumento informatico. Guida agli elaborati grafici*, Napoli 2004.

Sette M. P., *Il restauro in architettura. Quadro storico. Saggio introduttivo di Gaetano Miarelli Mariani*, Torino 2001.