



## COURSE DESCRIPTION ARCHITECTURAL CONSTRUCTION STUDIO

**SSD: TECNOLOGIA DELL'ARCHITETTURA (ICAR/12)**

DEGREE PROGRAMME: ARCHITETTURA (N14)  
ACADEMIC YEAR 2022/2023

### COURSE DESCRIPTION

TEACHER: PINTO MARIA RITA  
PHONE: 081-2538404  
EMAIL: mariarita.pinto@unina.it

### GENERAL INFORMATION ABOUT THE COURSE

INTEGRATED COURSE: NOT APPLICABLE  
MODULE: NOT APPLICABLE  
CHANNEL: 03 Cognome A - Z  
YEAR OF THE DEGREE PROGRAMME: II  
PERIOD IN WHICH THE COURSE IS DELIVERED: SEMESTER II  
CFU: 8

#### REQUIRED PRELIMINARY COURSES

Construction of Architectural Buildings

#### PREREQUISITES

There are no prerequisites

#### LEARNING GOALS

In coherence with the objectives of the course of study and with the training in the previous years in the field of Architectural Technology, the teaching aims to make students:

- a) understand the criteria, methods and tools of technological and environmental design in the development of the project in relation to the demanding framework, and the socio-cultural, technical-productive and environmental context;
- b) use basic methodological tools for the control, of a systemic type, of the project's levels of complexity;

- c) design within a sustainable development framework and with cognitive and design approaches aimed at innovation, experimentation and regeneration;
- d) use the main methodologies in compliance to the evolution of the culture of living and building related to settlement systems;
- e) produce with clarity and rigour graphic-descriptive works and documents.

## **EXPECTED LEARNING OUTCOMES (DUBLIN DESCRIPTORS)**

### **Knowledge and understanding**

The student must understand the criteria, methods and tools of technological and environmental design in the development of the project, as well as the problems related to design and technical-constructive choices in relation to the demanding framework, and the socio-cultural, technical-productive and environmental context. The training course aims to provide students with the basic knowledge and methodological tools for the systemic control of project complexity levels.

### **Applying knowledge and understanding**

The student must be able to design within a framework of sustainable development and with cognitive and design approaches aimed at innovation and experimentation, with reference to the main aspects of environmental and digital culture, as well as maintenance and redevelopment culture. The training course is oriented towards transmitting the operational skills to concretely applying knowledge, methodologies, strategies and solutions for living through the control of the different scales and levels of the project.

## **COURSE CONTENT/SYLLABUS**

The course contents cover:

- the systemic and demand-performance methodological approach developed by Architectural Technology Design;
- the evolution of the exigential framework in the light of new demands made by the actors of the building process on settlement systems;
- the methods and tools that regulate the relationship between design, construction and management of the building;
- the illustration of Good Practices related to interventions in the built environment;
- the definition of design scenarios for the improvement of performance levels, in relation to the constraints and potential of existing buildings;
- the control of design outcomes with reference also to the management and maintenance of buildings.

## **READINGS/BIBLIOGRAPHY**

AA.VV. (2001), Dizionario degli elementi costruttivi, UTET, Torino.

Bosia D. (a cura di) (2013), L'opera di Giuseppe Ciribini, FrancoAngeli, Milano

Lauria A. (a cura di) (2018), Piccoli Spazi Urbani. Valorizzazione degli spazi residuali e qualità sociale, Liguori Editore, Napoli.

Pinto M.R., Viola S., Onesti A., Ciampa F., Artists Residencies (2021), Challenges and Opportunities for Communities' Empowerment and Heritage Regeneration, SUSTAINABILITY n. 12, 9651; pp. 1-20, doi:10.3390/su12229651, ISSN: 2071 –1050.

Torricelli M.C., Del Nord R., Felli P. (2001), Materiali e tecnologie dell'architettura, Laterza, Bari.

Viola S., Zain U. A. (2021), Cultural and creative industries. Technological innovation for the built environment, La Scuola di Pitagora, Napoli. During the course of the lectures, references for each topic covered and in-depth bibliographical references will be provided in detail.

### TEACHING METHODS OF THE COURSE (OR MODULE)

The course concerns classroom exercises and theoretical lectures, aimed at experimenting the theoretical approaches covered and developing a project that meets new performance levels, compatible with pre-existing buildings. The lecturer will use: a) exercises to experiment and apply the methods and tools of Technological Design for approximately 75% of the total hours; b) frontal lectures for approximately 20% of the total hours; c) seminars to investigate specific topics for 5%.

### EXAMINATION/EVALUATION CRITERIA

#### a) Exam type

- Written
- Oral
- Project discussion

Other : The examination is aimed at ascertaining the achievement of the results, through an interview on the project developed in the classroom, recalling the topics covered in the theoretical lectures. The assessment will be aimed at verifying the acquisition and experimentation, through an exercise on a case study, of methods and tools of Technological Design to guarantee the feasibility of the architectural project.

#### In case of a written exam, questions refer to

- Multiple choice answers
- Open answers
- Numerical exercises

#### b) Evaluation pattern

The evaluation will be based on the oral interview and the presentation of the project