COURSE DESCRIPTION
ARCHITECTURAL CONSTRUCTION STUDIO

SSD: TECNOLOGIA DELL'ARCHITETTURA (ICAR/12)

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

COURSE DESCRIPTION

TEACHER: RUSSO ERMOLLI SERGIO
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GENERAL INFORMATION ABOUT THE COURSE

INTEGRATED COURSE: NOT APPLICABLE
MODULE: NOT APPLICABLE
SSD OF THE MODULE: NOT APPLICABLE
CHANNEL: 02 Cognome A - Z
YEAR OF THE DEGREE PROGRAMME: II
PERIOD IN WHICH THE COURSE IS DELIVERED: SEMESTER II
CFU: 8

REQUIRED PRELIMINARY COURSES
Costruzione delle Opere di Architettura

PREREQUISITES
None

LEARNING GOALS
In line with the objectives of the study course and with the training gained in previous years in the area of Architectural Technology, the teaching aims to: a) understanding the criteria, methods and tools of technological and environmental design in the development of the project in relation to the requirement framework, and to the socio-cultural, technical-productive and environmental context; b) using basic methodological tools necessary for the systemic control of the levels of complexity of the project; c) designing within a framework of sustainable development and with cognitive and design approaches aimed at innovation, experimentation, recovery; d) using the main methodologies relevant to the evolution of the culture of living and building in relation to settlement

systems; e) producing drawings and graphic-descriptive documents with clarity and rigor.

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 relating to design and technical-construction choices in relation to the requirement framework, and to the socio-cultural, technical-productive and environmental context. The training course aims to provide students with the knowledge and basic methodological tools necessary for the systemic control of the levels of complexity of the project.

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 emerging aspects of environmental and digital culture, as well as maintenance and recovery culture. The course is aimed at transmitting the operational skills necessary to concretely apply knowledge, methodologies, strategies and solutions for living by controlling the different scales and different levels of the project.

COURSE CONTENT/SYLLABUS

The Studio develops and introduces the themes of "constructability" and "experimentability" in the relationship between architectural form, construction techniques and materials through the exploration of the "why" and "how" the elements of construction behave, the illustration of functional models of the main construction types, the proposition, experimentation and evaluation of technical alternatives, with particular attention to the issue of energy efficiency and living comfort. The Studio is organized around a design theme, aimed at identifying specific requirements to be met and at highlighting the relationship between the different components of the project, focusing on the relationships between technique, function and form.

READINGS/BIBLIOGRAPHY

Sergio RUSSO ERMOLLI, *The Digital Culture of Architecture. Note sul cambiamento cognitivo e tecnico tra continuità e rottura,* Maggioli, Santarcangelo di Romagna, 2020
Sergio RUSSO ERMOLLI (a cura di), *The changing architect. Innovazione tecnologica e modellazione informativa per l'efficienza dei processi,* Maggioli, Santarcangelo di Romagna, 2018
Paolo CIVIERO, *Tecnologie per la riqualificazione,* Maggioli, Santarcangelo di Romagna, 2017
Cesare SPOSITO, *Sul recupero delle aree industriali dismesse. Tecnologie materiali impianti ecosostenibili e innovativi,* Maggioli, Santarcangelo di Romagna, 2012
During the course, additional didactic material free of copyright will be provided.

TEACHING METHODS OF THE COURSE (OR MODULE)

The teacher will use:

a) Frontal lessons (about 25% of the total hours);

b) seminars (about 5% of total hours);

c) laboratory activities (about 70% of the total hours).

EXAMINATION/EVALUATION CRITERIA

b) Evaluation pattern

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