

Course guide

290139 - AULAARQ - Aulaarq: Architecture Auscultation

Last modified: 17/07/2023

Unit in charge: Vallès School of Architecture
Teaching unit: 753 - TA - Department of Architectural Technology.
Degree: DEGREE IN ARCHITECTURE STUDIES (Syllabus 2014). (Optional subject).
Academic year: 2023 **ECTS Credits:** 3.0 **Languages:** Catalan

LECTURER

Coordinating lecturer: Zamora Mestre, Joan Lluís
Others: Muntané Raich, Oriol

TEACHING METHODOLOGY

LEARNING OBJECTIVES OF THE SUBJECT

This course aims to train the student in architecture instrumental techniques laptops that will allow understanding the behavior of real buildings. These techniques provide insight and quantify some of the main technical parameters that affect a building, its elements and materials (insulation, waterproofing, resistance, etc.). The teaching method is experimental and consists of a series of laboratory and field activities that form an introduction to experimentation in architecture, containing a special focus on technology to architecture. This proposal is aimed at teaching the students of architecture to improve their professional skills acquired their academic knowledge, abilities, skills, attitudes and values in the experimental environment that allows you to take better decisions in the field of technology architecture.

CONTENTS

Syllabus

Description:

- 1 Introduction
- 2 Bibliographic research. Design of an experiment.
- 3 Bases and applications of Thermography
- 4 Basics and applications of Endoscopy and Digital Microscopy
- 5 Bases and applications of Hygrometry of materials
- 6 Bases and applications of Colorimetry and Brillometry
- 7 Visit LGAI Construction Laboratory (APPLUS).
- 8 Determination of sound in buildings. Use of sound level meters.
- 9 Impact of air conditioning in buildings: Psychometry and environmental thermohygrometry.
- 10 Quality of construction elements: ultrasound.
- 11 Study of natural radiation. Quantity and quality of light.
- 12 Visit LGAI Construction Laboratory (APPLUS).

Full-or-part-time: 72h

Practical classes: 30h

Self study : 42h

GRADING SYSTEM

Practical exercises given in each session (45%)

Punctual attendance at sessions (10%)

Course joint practical exercise (45%)