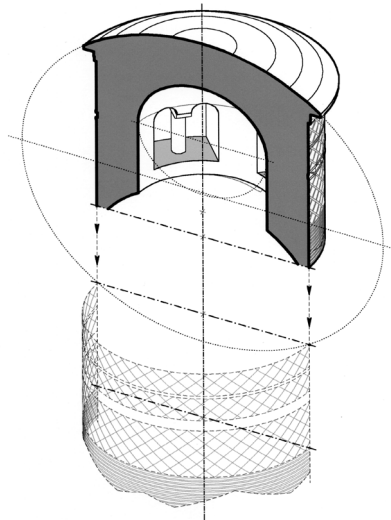# Università degli Studi "Mediterranea" di Reggio Calabria

Department Agraria
Corso di Laurea triennale in Scienze forestali e ambientali
Academic Year 2020-21

Principles of technical drawing and representation
(3 c.f.u)

Teaching Program

arch. Domenico Mediati

Università degli Studi "Mediterranea" di Reggio Calabria
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Principles of technical drawing and representation (3 c.f.u.)
A.Y. 2020-2021
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Educational targets

The course provides the necessary skills about infographic drawing, aimed at the analysis and representation of architectural artefacts, with particular attention to design in the agro-forestry field. We will use mainly CAD platforms, but we will also provide minimal notions on other software for the representation and layout of graphic works.

Prerequisites

Knowledge of the minimum notions of use and management of the main operating systems.

Teaching program

The course consists of a theoretical part in which we will deal mainly with the notions related to two-dimensional digital drawing with some hints to 3D modeling and a technical-applicative part with exercises on a case study. It will offer useful working methods for the optimization of CAD drawing processes and will propose essential notions for the storage, printing, export and import of two-dimensional drawings.

Expected results

Learning of digital representation methodologies and acquisition of skills about the analysis of architectural artefacts.

How to proceed

The didactic activities will include a series of theoretical-practical lessons divided into two sections: the first will concern the theoretical notions necessary for infographic drawing and the related application exercises; the second will consist of a series of seminars that will illustrate some typical cases of digital representation.

Evaluation method

The examination includes: a verification of the theoretical training course related to the topics covered during the course; an evaluation of the graphic works drawn up by the students according to the thematic lines indicated by the teacher. The required papers must be presented both in paper and digital form.
Periodically, some checks will be carried out about the exercises assigned, aimed at the development of exam papers related to the notions acquired.
Access to the examination will be agreed upon during the hours of receipt, after verification of the minimum requirements.

Recommended texts

- Pantries provided by the teacher.
- Luigi Santapaga, Matteo Trasi, *AutoCAD. Guida facile al disegno CAD 2D e 3D*, Apogeo, Milano 2020 (or other AutoCad manual).
- Riccardo Migliari, Geometria dei modelli, Edizioni Kappa, Roma 2003.
- Luigi Prestinenza Puglisi, *HyperArchitettura*, Testo & Immagine, Torino 1998.
- Luigi Prestinenza Puglisi, *Silenziose avanguardie. Una storia dell'architettura 1976-2001*, testo&immagine,Torino 1998.
- Christian Pongratz, Maria Rita Perbellini, *Nati con il computer. Giovani architetti americani*, Testo & Immagine, Torino 2000.
- Livio Sacchi, Maurizio Unali (a cura di), *Architettura e cultura digitale*, Skira, Milano 2003.