



Dipartimento di Architettura e Territorio – dArTe

Corso di Studio in Architettura quinquennale – Classe LM-4

Corso di Studio	Architettura quinquennale – Classe LM-4
Codice insegnamento	
Docente	Agostino Urso
Insegnamento	Abilità Informatiche (CAD)
Ambito disciplinare	
Settore Scientifico Disciplinare	
Numero di CFU	8
Ore di insegnamento	80
Anno di Corso	I°
Semestre	I

Descrizione sintetica dell'insegnamento e obiettivi formativi

The course of Computer Skills (CAD). It aims to explain to the students some elements of architectural representation through the study of the discipline of CAD. It lasts six months and it is divided into two different parts: lessons of Autocad 2d and 3d held in the first part of the course and those of 3DStudio, whose insights will occupy the remaining second part.

The course provides for the integration of theory with practical exercises at the end of which, on a weekly basis, will be scheduled for delivery to one or more elaborate verification on the skills acquired in the classroom.

Timely submission of weekly exercises is constraining element for access to the final exam, allowed only to students who can demonstrate the smooth delivery of a percentage of processed 70% of those assigned.

The basic purpose of the course is to help the learner in the deepening of the theoretical and practical knowledge necessary to settle a wealth of complementary skills to the deepening of the many technical disciplines, prepared in the undergraduate program. The idea formative aims to shape a professional able to confront the many skills that characterize the different sectors of the construction process. For the final exam you will have to prepare a series of drawings, drawn using Autocad and 3Dstudio, which will take account of the exercises conducted in the classroom by the integrated representation of an architectural project (unifamiliar houses) chosen individually by each student but also in the group, in full agreement with the teacher. The number and sequence of the processed, as well as the layout of the print, will be agreed upon during the course.

Prerequisiti

It is required a basic knowledge of operating systems.

Programma del corso

It starts with teaching a series of preliminary notions useful to introduce students to the conventions, both graphic and theoretical postulate from architecture design, and then it continues with more specific notions of CAD and rendering. It is useful to point out, here, that the discipline of Cad must be considered as important educational complement and competitor to a vision at the same time unique and complex architecture of the story. The belief that the intrinsic geometry to digital space provides a number of conceptual tools needed to prefigure the same space in which, then, the tools of modeling allow full control of the architecture model, continues to lead the teaching and conscious mingling / overlay theoretical concepts of geometry, representation of design culture and everything else needed for a proper understanding / representation of the architectural process.

Risultati attesi (acquisizione di conoscenze da parte dello studente)

Through the identification and processing of issues related to the purposes of the course, each student will be able to check his capacity of analysis of the topics of study and complementary skills in handling software representation necessary to complete the work assigned.

The analysis on the selected project will focus on the use of appropriate software to representations consistent with the nature of formal, expressive and cultural object investigated. Systems of "canonical" representations (plans, elevations, sections, axonometric and perspective views) will be studied and understood.

Tipologia delle attività formative

Lessons (*hours/year in classroom*):60

Exercises (*hours/year in classroom*):10

Practice activities (*hours/year in classroom*): 10

Lavoro autonomo dello studente

The autonomous work of the student is twofold. On one side is related to enhancement of operational skills associated with the acquisition of the skills necessary to carry through the homework assigned. The other is connected to the deepening of the conceptual issues related to Architecture investigations.

Modalità di verifica dell'apprendimento

The examination, which will take place in a single session, not before the session of January 2015, will award to each student 8 credits (cfu). The examination, preceded by a practical test attesting the knowledge of the basic concepts of CAD and render, consist in the evaluation of the drawings produced on the issues of representation, agreed with the teacher, and the exercises required during the lessons. The admission to the examination is conditional to the achievement of the percentage of exercises delivered in the classroom (minimum 70%). The delivery of the documents assigned is allowed no later than the first hour of the second weekly lesson (16.30 on Thursday).

Materiale didattico consigliato

The speed of progression of the versions of the software does not allow you to suggest a specific book. During the course it will be released video lessons and teaching material that will assist students in achieving the educational objectives set.