



COURSE: Computer Aided Design

ACADEMIC YEAR: 2018-2019

TYPE OF EDUCATIONAL ACTIVITY: Free choice by student

TEACHER: Arch. Canio Santarsiero

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web:

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Language: Italian

ECTS: (lessons e tutorials/practice): 3	n. of hours (lessons and tutorials/practice) : 30 of which 18 of lessons and 12 of practice	Campus: Potenza Dept./School: engineering	Semester: II
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EDUCATIONAL GOALS AND EXPECTED LEARNING OUTCOMES

The main goal of the course is to provide an exhaustive preparation for the use of drawings and text management commands:

- **Knowledge and understanding skills:** After completing the course, the student will have the knowledge to resolve simple tasks concerning two-dimensional modeling
 - **Ability to Apply Knowledge and Understanding:** The student will be able to use multiple two-dimensional modeling and representation methods in real engineering cases.
 - **Autonomous judgement:** at the end of the course the students will acquire:
 - ability to understand autonomously all elements and informations in its possession (for example, the requests of a client) in order to solve tasks with solutions consistent with available technologies;
 - ability to continuously update their knowledge to deal with new tasks and keep up with technological evolution
 - **Communication skills:** at the end of the course the students will acquire:
 - ability to present their own ideas and thoughts about assignment and proposed solutions, both to specialist and non-specialist audience.
 - ability to communicate effectively with colleagues and users about their area of expertise
 - **Learning skills:** the course has, among others, the goal to grow the ability of students in increasing their knowledge about methodological and technological issues of computer science.
The graduate will be able to:
 - understand technological evolution and be able to adapt to the advancement of computer science;
 - continue studies in the field of computer science, also focused on the development of a research;
 - continue studies autonomously, thanks to the ability to effectively consult scientific and technological documentation.
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PRE-REQUIREMENTS

Basic knowledge of two-dimensional design.

COURSE CONTENT

The course starts from basic concepts in order to provide a complete knowledge about CAD drawing and text management tools. The course aims to provide students with the best method for creating a drawings in CAD environment and with the basic knowledge to draw, edit, print, manage drawings and layers. The course will provide student with lessons and immediate application of the theory with exercises to test the students' knowledge.



SYLLABUS

The User Interface;
Start and Save Drawings;
Control the Drawings View;
Use Precision Tools;
2D drawings;
Control the Properties of Objects;
Selection Tools;
Modify Tools;
Insert Text, Tables, Notes;
Extract Geometric Information from Objects;
Create Dimensions;
Hatches, Fills, and Wipeouts.

TEACHING METHODS

Theoretical lessons, Classroom tutorials, Laboratory tutorials, Project works, Technical visits, Classroom exercises.
During classroom exercises students will have the support of a teaching assistant who will provide individual help about assignments and understanding or application of the commands.

EVALUATION METHODS

Intermediate verifications, Written examination, Discussion of a project work, Practical test, Oral exam.
During the course students will take 4 In-course practical tests regarding the theoretical contents acquired during the course. The final vote is given by the sum of the 4 scores. If the total score is below 18 or considered insufficient by the student, it is necessary to access to the final exam.
The final exam comprises a one-hour practical test on the computer about graphical methodologies acquired during the course and an oral test about theoretical contents. The final score is given by the sum of the 2 scores. If one of the 2 tests is insufficient or if the total score is less than 18, it will be necessary to repeat at least one of the 2 tests.

TEXTBOOKS AND ON-LINE EDUCATIONAL MATERIAL

Professor's pamphlet and descriptive geometry book.

INTERACTION WITH STUDENTS

At the beginning of the course will be made a list of students who wish to enroll in the course, along with their name, surname, university ID number and email. Teacher will provide students with the educational material by mail. Reception hours: Mondays and Thursdays before or after the lesson. Students can also set up an appointment on the telephone. In addition to the weekly reception time, the teacher is available any time, via email or via phone at 3356679317.

EXAMINATION SESSIONS (FORECAST)¹

Example

10/06/2019, 01/07/2019 16/09/2019, 18/11/2019, 20/01/2020, 19/03/2020

SEMINARS BY EXTERNAL EXPERTS YES NO

FURTHER INFORMATION

¹ Subject to possible changes: check the web site of the Teacher or the Department/School for updates.