AEROSPACE ENGINEERING (LM52)

(Brindisi - Università degli Studi)

Teaching COMPUTER AIDED DESIGN FOR AEROSPACE APPLICATIONS

GenCod A005152

Owner professor Marta DE GIORGI

Teaching in italian COMPUTER AIDED DESIGN FOR AEROSPACE

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SSD code ING-IND/15

Reference course AEROSPACE ENGINEERING

Course type Laurea Magistrale

Credits 6.0

Teaching hours Ore-Attivita-frontale: 54.0

For enrolled in 2018/2019

Taught in 2018/2019

Course year 1

Language INGLESE

Curriculum PERCORSO COMUNE

Location Brindisi

Semester Secondo-Semestre

Exam type Orale

Assessment Voto-Finale

Course timetable https://easyroom.unisalento.it/Orario

REQUIREMENTS

Sufficiency in geometry and linear algebra.

COURSE AIMS

Overview

Computer aided design aims at developing engineering design skills with a particular focus on the proficient use of modern CAD-integrated analysis tools.

Learning Outcomes

After the course the student should be able to

* acquire detailed knowledge and understanding of the most recent advances in 3D computer aided design.
* know the fundamental building blocks for creating parametric geometry.

ASSESSMENT TYPE

The exam consists of two cascaded parts (maximum overall duration: three hours).
The first part is closed book (duration: one hour); the student is asked to illustrate some theoretical topics.
The second part, that starts when the student has completed the first part (duration: two hours), consists in modelling, using CATIA, a given mechanical/aeronautical component and outputting the detail drawing.

FULL SYLLABUS	Introduction: CAD/CAM/CAE systems in the industrial product development cycle. Geometric modeling methods and techniques. The representation schemes of solid geometry: CSG, B-rep, finite elements, schemes by enumeration of occupied spaces . CATIA V5: Introduction CATIA V5: The sketching CATIA V5: Part Design CATIA V5: Assembly Design CATIA V5: Generative Shape Design CATIA V5: Drawing