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 Course year 1 DESIGN FOR AEROSPACE Language INGLESE Teaching COMPUTER AIDED DESIGN FOR AEROSPACE APPLICATIONS Curriculum PERCORSO COMUNE SSD code ING-IND/15 Reference course AEROSPACE ENGINEERING Location Brindisi Course type Laurea Magistrale Semester Secondo-Semestre Credits 6.0 Exam type Orale Teaching hours Ore-Attivita-frontale: 54.0 Assessment Voto-Finale For enrolled in 2018/2019

Taught in 2018/2019

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

Sufficiency in geometry and linear algebra.

COURSE AIMS

REQUIREMENTS

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

