

AEROSPACE ENGINEERING (LM52)

(Brindisi - Università degli Studi)

Teaching METALLIC MATERIALS FOR AERONAUTICS

GenCod A003322

Owner professor Pasquale Daniele CAVALIERE

Teaching in italian METALLIC MATERIALS FOR AERONAUTICS

Teaching METALLIC MATERIALS FOR AERONAUTICS

SSD code ING-IND/21

Reference course AEROSPACE ENGINEERING

Course type Laurea Magistrale

Credits 9.0

Teaching hours Front activity hours: 81.0

For enrolled in 2021/2022

Taught in 2022/2023

Course year 2

Language ENGLISH

Curriculum CURRICULUM AEROSPACE DESIGN

Location Brindisi

Semester Second Semester

Exam type Oral

Assessment Final grade

Course timetable

<https://easyroom.unisalento.it/Orario>

BRIEF COURSE DESCRIPTION

- Materials fundamentals for aerospace applications
- Alloys for Aeronautic Applications
- Aluminium alloys for aeronautics applications
- Titanium alloys for aeronautics applications
- Ferrous alloys for aeronautics applications
- Superalloys for aeronautics applications
- Design alloy guide for aeronautics applications
- Metal additive manufacturing for aerospace

REQUIREMENTS

Elements of physical and mechanical metallurgy

COURSE AIMS

The course is aimed to the knowledge of the main physical and mechanical properties of aeronautics metals and alloys as well as to their selection for the aeronautics purposes

TEACHING METHODOLOGY

Lectures and group works

ASSESSMENT TYPE

-Mid-course intermediate test, plus final test

REFERENCE TEXT BOOKS

The course material will be provided by the chair during the course