

# 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

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**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** 2022/2023

**Taught in** 2023/2024

**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