

COURSE DETAIL

MECHANICS APPLIED TO AEROSPACE ENGINEERING

Country

Spain

Host Institution

Carlos III University of Madrid

Program(s)

Carlos III University of Madrid

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Mechanical Engineering Engineering

UCEAP Course Number

155

UCEAP Course Suffix**UCEAP Official Title**

MECHANICS APPLIED TO AEROSPACE ENGINEERING

UCEAP Transcript Title

MECH/AEROSPACE ENG

UCEAP Quarter Units

5.00

UCEAP Semester Units

3.30

Course Description

This course offers a study of classical mechanics applied to flight mechanics and aerospace systems. Topics include: kinematics of point particles; dynamics of point particles; kinematics of a rigid body; geometry of masses; rigid body dynamics; systems of rigid bodies; torque-free motion of the rigid body; the airplane as a point particle. Pre-requisites: Calculus I, Calculus II, Linear Algebra, Physics I.

Language(s) of Instruction

English

Host Institution Course Number

14165

Host Institution Course Title

MECÁNICA APLICADA A LA INGENIERÍA AEROESPACIAL

Host Institution Course Details

<https://aplicaciones.uc3m.es/cpa/generaFicha?est=251&anio=2024&plan=421&asig=14...>

Host Institution Campus

LEGANÉS

Host Institution Faculty

Escuela Politécnica Superior

Host Institution Degree

Grado en Ingeniería Aeroespacial

Host Institution Department

Departamento de Ingeniería Aeroespacial

Course Last Reviewed

2024-2025

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