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
MECHANICS APPLIED TO AEROSPACE ENGINEERING

Host Institution Campus
LEGANÉS

Host Institution Faculty
Escuela Politécnica Superior

Host Institution Degree
Grado en Ingeniería Aeroespacial

Host Institution Department
Departamento de Ingeniería Aeroespacial

Print