COURSE DETAIL

AEROSPACE PROPULSION I
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) Engineering
UCEAP Course Number 112
UCEAP Course Suffix
UCEAP Official Title AEROSPACE PROPULSION I
UCEAP Transcript Title AEROSPACE PROPLSN I
UCEAP Quarter Units 5.00
UCEAP Semester Units 3.30

Course Description

This course offers an introduction to aerospace propulsion. Topics include: aircraft engine modeling-- the turbojet; component matching and off-design operation; turbofan engines; inlets and nozzles; principles of compressors and fans; compressor blading, design, and multi-staging; turbines, stage characteristics, and degree of reaction; turbine solidity, mass flow limits, and internal cooling; film cooling, thermal stresses, and impingement; combustion-- combustors and pollutants; engine noise and aeroacoustics; engine rotating structures; rotordynamics.

Language(s) of Instruction
English

Host Institution Course Number
14171

Host Institution Course Title
PROPULSIÓN AEROESPACIAL I

Host Institution Course Details
https://aplicaciones.uc3m.es/cpa/generaFicha?est=251&anio=2022&plan=421&asig=14...

Host Institution Campus
Leganés

Host Institution Faculty
Escuela Politécnica Superior.

Host Institution Degree
Grado en Ingeniería Aeroespacial

Host Institution Department
Ingeniería Aeroespacial

Course Last Reviewed
2022-2023

Print