

Course guide 220308 - 220308 - (Ang) Sistemes de Propulsius d'Aeronaus

Last modified: 19/04/2023

Unit in charge: Teaching unit:	Terrassa School of Industrial, Aerospace and Audiovisual Engineering 220 - ETSEIAT - Terrassa School of Industrial and Aeronautical Engineering.	
Degree:	MASTER'S DEGREE IN AER	ONAUTICAL ENGINEERING (Syllabus 2014). (Compulsory subject).
Academic year: 2023	ECTS Credits: 5.0	Languages: Catalan

LECTURER

Coordinating lecturer: Marc Maymó

Others:

DEGREE COMPETENCES TO WHICH THE SUBJECT CONTRIBUTES

Specific:

CG04-MUEA. (ENG) Capacitat d'integrar sistemes aeroespacials complexos i equips de treball multidisciplinaris.

CE11. MUEA/MASE: An aptitude for designing, building and selecting the most appropriate power plants for aerospace vehicles, including aeroderivative power plants.

CE16. MUEA/MASE: Sufficient knowledge of air-breathing jet engines, gas turbines, rocket engines and turbomachines.

CE17. MUEA/MASE: The ability to carry out the mechanical design of a propulsion system's components.

CE18. MUEA/MASE: The ability to design, execute and analyse propulsion systems tests and carry out the systems' entire certification process.

CE19. MUEA/MASE: Sufficient knowledge of the subsystems of aerospace vehicles' propulsion power plants.

Basic:

CB06. Manage original concepts in research projects.

CB08. Generate decision from incomplete information assuming its social and ethical responsibilities.

CB10. Improve self-learning capacity

TEACHING METHODOLOGY

LEARNING OBJECTIVES OF THE SUBJECT

STUDY LOAD

Туре	Hours	Percentage
Hours small group	15,0	12.00
Self study	80,0	64.00
Hours large group	30,0	24.00

Total learning time: 125 h



CONTENTS

title english

Description: content english

Full-or-part-time: 125h Theory classes: 30h Laboratory classes: 15h Self study : 80h

GRADING SYSTEM

BIBLIOGRAPHY

Basic:

- Mattingly, Jack D. Elements of gas turbine propulsion. New York: American Institute of Aeronautics and Astronautics, 2005. ISBN 1563477785.

Complementary:

- Kerrebrock, Jack L. Aircraft engines and gas turbines. 2nd ed. Cambridge, Mass.: MIT Press, cop. 1992. ISBN 0262111624.