

Thermal engines

Academic Year: (2020 / 2021)

Review date: 22-12-2020

Department assigned to the subject: Department of Thermal and Fluids Engineering

Coordinating teacher: GARCIA HERNANDO, NESTOR

Type: Electives ECTS Credits : 6.0

Year : 4 Semester :

COMPETENCES AND SKILLS THAT WILL BE ACQUIRED AND LEARNING RESULTS.

Skills:

- Thermal engine processes and relation to pollutants emissions, design parameters
- Thermal turbomachinery design

Learning results:

- Internal combustion thermal engines components, processes, trends
- Engine use, technical information management.

DESCRIPTION OF CONTENTS: PROGRAMME

Reciprocating engines: processes and pollutants generation and control

Gas turbines: engine design

Thermal engines future trends

ASSESSMENT SYSTEM

Partial exam: around 45% depending on teaching hours involved

Final exam: around 45% depending on teaching hours involved

Individual exercises: considered in case of limit marks

Practices: 10%

% end-of-term-examination:	45
% of continuous assessment (assignments, laboratory, practicals...):	55