Heat power plants

Academic Year: (2020 / 2021)

Review date: 01-07-2020

Department assigned to the subject: Thermal and Fluids Engineering Department Coordinating teacher:

Type: Compulsory ECTS Credits : 3.0

Year : 3 Semester : 2

DESCRIPTION OF CONTENTS: PROGRAMME

• Optimization of power cycles and thermal engines. Analysis of performance and efficiency of each cycle. Reheat and regenerative Rankine cycles. Brayton cycles with postcombustion, regenerative, and intercooling compression. Combined cycles.

· Main components of power plants: Furnaces, compressors, turbines, heat exchangers, and cooling towers.

ASSESSMENT SYSTEM

E1. FINAL EXAM. Global assessment of knowledge, skills and capacities acquired throughout the course. The percentage of the evaluation varies for each subject between 60% and 0%E2. CONTINUOUS EVALUATION. Assesses papers, projects, class presentations, debates, exercises, internships

and workshops throughout the course. The percentage of the evaluation varies for each subject between 40% and 100% of the final grade

% end-of-term-examination:	60
% of continuous assessment (assigments, laboratory, practicals):	40