

Combustion

Course code: ACO3

ECTS Credits: 2.5

Department	: ET	Lectures	:
Lecturers	: M. Bellenoue	Tutorials	:
Year of study	: 2 nd year	Laboratory sessions	:
Semester	: 3 rd semester	Project	:
Assessment method(s)	: 1 written test + practicals	Home works	:
Language of instruction	: English	Total hours	: 38h45
Type of courses	: Compulsory		

Objective: Knowledge of the fundamentals of laminar combustion

Prerequisites: Thermodynamics, fluid mechanics

Content:

1. Introduction
2. Conservative equations for multicomponents reacting system
3. Phenomenological relations – Chemical kinetics
4. Diffusion flames
5. Premixed laminar flames
6. Turbojet engines' combustion in combustion chambers
7. Ignition and extinction

Recommended reading: None

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