

Fracture mechanics

Course code: AFM3

ECTS Credits: 1

Department	: MSISI	Lectures	: 6h15
Lecturers	: C. Gardin	Tutorials	: 6h15
Year of study	: 2 nd year	Laboratory sessions	:
Semester	: 3 rd semester	Project	:
Assessment method(s)	: 1 written test	Home works	:
Language of instruction	: English	Total hours	: 12h30
Type of courses	: Compulsory		

Objective: Take into account a stress concentrator or a crack during dimensioning of a structure under static or cyclic loading

Prerequisites: Solid mechanics

Content:

Fracture mechanics

- Different types of fracture
- Linear fracture mechanics
- Elastoplastic fracture mechanics

Recommended reading: D. François, A. Pineau, A. Zaoui, *Comportement mécanique des matériaux*, Hermes, 1995

←BACK