

Manufacturing

Forming and testings

IDENTIFICATION

CODE : GM-4-S1-EC-IPPP
ECTS : 2.0

HOURS

Lectures : 0.0 h
Seminars : 16.0 h
Laboratory : 12.0 h
Project : 0.0 h
Teacher-student
contact : 28.0 h
Personal work : 10.0 h
Total : 38.0 h

ASSESSMENT METHOD

TEACHING AIDS

TEACHING LANGUAGE

French

CONTACT

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AIMS

A-Manufacturing Process

- * Know how to create a manufacturing line
- * Know the technological elements related to the implementation of primary processes [forging, molding, injection]

B- Control en testing

- * Master the physical and technical basis of non-destructive testing
- * Know how to use the most appropriate technique for a NDT problem

CONTENT

A- Methods and process

- * Elements of implementation of primary processes, including forging, molding, injection

B- NDT

- * Study of the propagation of an acoustic wave in matter; Application to the detection of plane defects and thickness measurement.
- * Study of the attenuation of X-rays, in 2D [X-ray] and 3D [tomography] imaging; Identification of typical aluminum casting defects.
- * Use of experimental bench and simulation tools.

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