

Computer Aided Design

Mechanical design of machine elements

IDENTIFICATION

CODE : GMCIP-3-S1-EC-CDIM
ECTS : 3.0

HOURS

Lectures :	18.0 h
Seminars :	20.0 h
Laboratory :	0.0 h
Project :	0.0 h
Teacher-student contact :	38.0 h
Personal work :	52.0 h
Total :	90.0 h

ASSESSMENT METHOD

TEACHING AIDS

TEACHING LANGUAGE

French

CONTACT

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AIMS

Design and calculate a mechanical system under static and fatigue loading conditions

CONTENT

- ¿ Isolate a part from a mechanical system, assess the mechanical forces, identify critical areas, and apply static resistance criteria
- ¿ Calculate the size of systems under static and fatigue loading conditions
- ¿ Calculate the size of an embedded joint (bolting, rivets, keys etc.)
- ¿ Calculate the size of an elastic joint (spring, washer etc.)
- ¿ Calculate the size of a revolute joint (bushes, bearings etc.)