

Manufacturing

Production management

AIMS

Production management and quality:

- know the basic principles of production planning [S&OP, MPS, MRP]
- know the definition of a quality management system
- know the main tools of problem solving and lean manufacturing

Design of experiments:

- how to establish factors influence
- Carry out an analysis of variance [ANOVA]
- use fractional factorial designs, ordering experiments and Taguchi method.

Databases:

- Processing informations with a database

CONTENT

Production management and quality:

- Introduction; technical data management; production planning [S&OP, MPS, MRP]
- Quality management system and ISO9001v2015; problem solving tools; lean manufacturing

Design of experiments:

- Full factorial experiment, linear regression model, comparing variance
- Other method for experiment design

Databases:

- Introducing and using an OpenSource database

IDENTIFICATION

CODE : GM-4-S1-EC-PCGEP
ECTS : 3.0

HOURS

Lectures : 10.0 h
Seminars : 18.0 h
Laboratory : 0.0 h
Project : 0.0 h
Teacher-student
contact : 28.0 h
Personal work : 20.0 h
Total : 48.0 h

ASSESSMENT METHOD

1 examination (1h)+ 1 Exam (1h30)

TEACHING AIDS

Production management and
quality:

- 1 handout (lecture notes +
exercices)
- moodle platform with
autocorrected online exercises for
self-training
- serious game to experience a
production situation

Design of experiments:

- 1 handout (lecture notes +
exercices)

Databases:

- 1 handout (lecture notes +
exercices)

TEACHING LANGUAGE

French

CONTACT

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