

Manufacturing Management

Advanced Production management

IDENTIFICATION

CODE : MSGI-GP2
ECTS : 2.0

HOURS

Lectures : 0.0 h
Seminars : 18.0 h
Laboratory : 0.0 h
Project : 0.0 h
Teacher-student
contact : 18.0 h
Personal work : 9.0 h
Total : 27.0 h

ASSESSMENT METHOD

2h exam

TEACHING AIDS

lecture notes

TEACHING LANGUAGE

French

CONTACT

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AIMS

This teaching takes place over the period October till January

At the end of this module the learner should be able to intervene in three complementary areas of production management:

- Scheduling: Specify a scheduling problem, choose or define the more suitable resolution method, and apply it;
- Forecasting techniques: specify the problem, choose the suitable forecasting method and apply it;
- Information system for industrial management: choose the application component[ERP, ...] the most suited to a given context, manage an ERP implementation project.

CONTENT

- Workshop scheduling (single machine, parallel machines, flow shop, job shop, hybrid organizations)
- Project scheduling (PERT,...)
- Forecasting methods
- Information systems: from production management to supply chain management, CAM, ERP (integrated system for enterprise management)
- ERP implementation methodology

BIBLIOGRAPHY

Lopez P. et F. Roubellat : Ordonnancement de la production. Traité IC2 Hermes 2001
Giard V., Gestion de la production et des flux, Economica, 2003
Alter S., Information systems : a management perspective. Benjamin/Cummings Publisher, 1996
Berthelemy F., L. Gregoire et C. Terrier, Processus et méthodes logistiques. Supply chain management. AFNOR, 2001
Idrissi N, P. Knockaert et M. Cattan, Maîtriser les processus de l'entreprise. Organisation, 2001
Reix, R., Systèmes d'information et management des organisations. Vuibert, 2002
Tomas J.L., ERP et progiciels intégrés, la mutation des systèmes d'information. Dunod, 2000
La rationalisation dans les entreprises par les technologie coopératives, Direction G. de Terssac, I. Bazet et L. Rapp, OCTARES Editions, 2007

PRE-REQUISITE

GP1
+ Probabilities and statistics, computer sciences

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