

## Manufacturing Management

### Lean

#### IDENTIFICATION

CODE : GI-4-S2-EC-LEA  
ECTS : 3.0

#### HOURS

Lectures : 4.0 h  
Seminars : 20.0 h  
Laboratory : 12.0 h  
Project : 0.0 h  
Teacher-student  
contact : 36.0 h  
Personal work : 9.0 h  
Total : 45.0 h

#### ASSESSMENT METHOD

Plus 1 ECTS for exchange students

#### TEACHING AIDS

#### TEACHING LANGUAGE

English

#### CONTACT

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#### AIMS

This course belongs to teaching unit Management and improvement of business performance [GI-4-S2-UE-GAPE] and contributes to the following skills :

- Appreciate lean as a way of management
- Use VSM to identify and eliminate the wastes,
- Develop the skills necessary to see the flow of a value stream and to create a future state map

#### CONTENT

2 sessions of 2 hours of lectures [CM]:

- Presentation of the history of Lean
- Basic principles of Lean
- 7 types of wastes, temple Toyota, Just In Time, Jidoka principles, standardization, management.

- 3 sessions of 2 hours of tutorials [TD]:

- Presentation of the Value Stream Mapping method,
- Development of an action plan.

A case study

- 2 sessions of 4 hours of practice [TP]: a simulation game of a production workshop of jacks [Synchro Lean Simulation on hardware FESTO].

#### BIBLIOGRAPHY

- Bien voir pour mieux gérer. Mike Rother et John Shook. Avant propos: Jim Womack et Dan Jones .Traduction en Français : Line Perron. N° ISBN: 978-2-9529806-1-6
- Gold Mine. Freddy Ballé et Michael Ballé. N°ISBN: 0-9743225-6-3
- Le Modèle TOYOTA. Jeffrey Liker. Traduction en Français: Monique Sperry. Avant propos: Didier Leroy (président de Toyota Motor Manufacturing France. Préface: Michael Ballé et Godefroy Beauvallet. N° ISBN: 978-2-7440-7390-8
- Lexique Lean. Chet Marchwinski et John Shook. Traduction en Français: Institut Lean France. N° ISBN: 978-2-9529806-0-9
- Seeing the whole. James P. Womack and Daniel T. Jones. N° ISBN: 0-9667843-5-9
- Système Lean. Penser l'entreprise au plus juste 2ème édition. Jim Womack, Dan Jones. Préface: Michael Ballé et Godefroy Beauvallet. Traduction en français: Monique Sperry. N° ISBN: 978-2-7440-7391-5