

Module Description, available in: EN

Innovation and Lean

General Information**Number of ECTS Credits**

3

Module code

CM_InnoLEAN

Valid for academic year

2024-25

Last modification

2022-10-17

Coordinator of the module

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Explanations regarding the language definitions for each location:

- Instruction is given in the language defined below for each location/each time the module is held.
- Documentation is available in the languages defined below. Where documents are in several languages, the percentage distribution is shown (100% = all the documentation).
- The examination is available 100% in the languages shown for each location/each time it is held.

	Lausanne			Lugano	Zurich		
Instruction				X E 100%			
Documentation				X E 100%			
Examination				X E 100%			

Module Category

CM Context module

Lessons

2 lecture periods and 1 tutorial period per week

Entry level competences**Prerequisites, previous knowledge**

Basic Knowledge in production management.

Brief course description of module objectives and content

The course introduces the concepts of Lean innovation and lean thinking. It also foster a complex serious-gaming session where the students can develop their own factory and implement a set of innovations. Indeed, the student will be able to devise and implement a production practice that considers to be waste the expenditure of resources for any goal other than the creation of value for the customer.

Aims, content, methods**Learning objectives and competencies to be acquired**

- Understand the lean lexicon
- Provide theoretical and practical knowledge for proper Lean Innovation

- Define a lean implementation project plan and manage the project
- Acquire the main tools and techniques to manage a lean transformation

Module content with weighting of different components

- Lean approach
- Lean Methods and Tools
- Lean Implementation
- Serious Game session

Teaching and learning methods

Front lessons – to better understand the content of the lessons: best practices and exercises
Test Case – to be developed in small groups or by themselves
Lean Lab – serious gaming to develop a deep understanding of the theoretical concepts

Literature

Assessment

Certification requirements

Module uses certification requirements

Certification requirements for final examinations (conditions for attestation)

Final Written Exam + positive evaluation of the Serious-Game report

Basic principle for exams

As a rule, all standard final exams are conducted in written form. For resit exams, lecturers will communicate the exam format (written/oral) together with the exam schedule.

Standard final exam for a module and written resit exam

Kind of exam

Written exam

Duration of exam

120 minutes

Permissible aids

No aids permitted

Special case: Resit exam as oral exam

Kind of exam

Oral exam

Duration of exam

30 minutes

Permissible aids

No aids permitted