Module Description, available in: EN

Innovation and Lean

General Information

Number of ECTS Credits

3

Module code

CM_InnoLEAN

Valid for academic year

2026-27

Last modification

2022-10-17

Coordinator of the module

Paolo Pedrazzoli (SUPSI, paolo.pedrazzoli@supsi.ch)

Explanations regarding the language definitions for each location:

- Instruction is given in the language specified for each location and module execution.
- Documentation is available in the language(s) listed for each location and module execution. If the documentation is in multiple languages, the percentage distributed is indicated (100% = all documentation provided).
- The examination, including both questions and answers, is provided entirely (100%) in the language(s) specified for each location and module execution. The exams are on-site.

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

Module Category

CM Context module

Profile Recommendations

This module is recommended for the following profiles:

	Lugano
Profile	BE, CS, MA

Lessons

2 lecture periods and 1 tutorial period per week

Entry level competences

Prerequisites, previous knowledge

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 excercises
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

Additional performance assessment during the semester

The module does not contain an additional performance assessment during the semester

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

Exception: In case of an electronic Moodle exam, adjustments to the permissible aids may occur. Lecturers will announce the final permissible aids prior to the exam session.

Special case: Resit exam as oral exam

Kind of exam

Oral exam

Duration of exam

30 minutes

Permissible aids

No aids permitted