

Module Description

Innovation and Lean

General Information
Number of ECTS Credits

3

Abbreviation

CM_InnoLEAN

Version

2016.03.17

Responsible of module

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Language

	Lausanne	Bern	Zürich	Lugano/Manno
Instruction	<input type="checkbox"/> E <input type="checkbox"/> F	<input type="checkbox"/> D <input type="checkbox"/> E <input type="checkbox"/> F	<input type="checkbox"/> D <input type="checkbox"/> E	<input checked="" type="checkbox"/> E
Documentation	<input type="checkbox"/> E <input type="checkbox"/> F	<input type="checkbox"/> D <input type="checkbox"/> E <input type="checkbox"/> F	<input type="checkbox"/> D <input type="checkbox"/> E	<input checked="" type="checkbox"/> E
Examination	<input type="checkbox"/> E <input type="checkbox"/> F	<input type="checkbox"/> D <input type="checkbox"/> E <input type="checkbox"/> F	<input type="checkbox"/> D <input type="checkbox"/> E	<input checked="" type="checkbox"/> E

Module category

- Fundamental theoretical principles
- Technical/scientific specialization module
- Context module

Lessons

- 2 lecture periods and 1 tutorial period per week
- 2 lecture periods per week

Brief course description of module objectives and content

The course has the scope to introduce the concepts of innovation management and lean thinking and implementation. The student will be able to devise and implement a production practice that considers the expenditure of resources for any goal other than the creation of value for the customer to be waste.

Aims, content, methods
Learning objectives and acquired competencies

- understand the lean lexicon
- provide theoretical and practical knowledge for proper innovation management
- define a lean implementation project plan and manage the project
- acquire the main tools and techniques to manage a lean transformation

Contents of module with emphasis on teaching content

- Innovation management
- Types of innovation, Technology Acceptance Model (TAM), Diffusion Of Innovation (DOI) Quantitative model for DOI Technological forecasting (QFD, Delphi, Conjoint Analysis)
- Lean approach
- Lean Tools

Teaching and learning methods

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

Prerequisites, previous knowledge, entrance competencies

Basic Knowledge in production management

Literature**Assessment****Certification requirements for final examinations (conditions for attestation)**

Positive evaluation of 1 Lean Lab Work (1/3 final mark)

Written module examination

Duration of exam : 120 minutes

Permissible aids: none