

Module Description

Novel Innovation and Design Principles

General Information					
Number of ECTS Credits					
3					
Abbreviation					
TSM_InnoDes					
Version					
07.03.2016					
Responsible of module					
Dr. Michele Kellerhals, HSLU					
Language					
	Lausanne	Bern	Zurich		
Instruction		\Box D \Box E \Box F	\Box D \boxtimes E		
Documentation		\Box D \Box E \Box F	\Box D \boxtimes E		
Examination		\Box D \Box E \Box F	\Box D \boxtimes E		
Module category					
□ Fundamental theoretical principles - FTP					
☑ Technical/scientific specialization module - TSM					
Context module - CM					
Lessons					
☑ 2 lecture periods and 1 tutorial period per week					

□ 2 lecture periods per week

Brief course description of module objectives and content

NOVEL INNOVATION & DESIGN PRINCIPLES. In order to keep generating competitive advantage through innovation, both manufacturing and service industries are in need to apply novel innovation and design principles. This module will focus on reuniting the study and practice of entrepreneurship and innovation. It takes a process-oriented view of innovation and starts with setting entrepreneurial goals and context, recognizing major opportunities, finding the resources, developing ventures and eventually discusses how value is created in the process. Alongside this journey, approaches such as design thinking, user-driven innovation, expert design principles, co-design, product & process innovation, open innovation, lean entrepreneurship, corporate venturing, jugaad innovation, social and sustainability innovation and business model innovation, among others, will be used to work on 6 real-life business cases. Themes such as digitalization, mass-customization and use of novel tools will be applied.

Aims, content, methods

Learning objectives and acquired competencies

- What innovation and entrepreneurship mean and how they are essential for survival and growth
- Innovation as a process rather than a single flash of inspiration
- The nature of creativity and the creative process
- · Where innovations come from the wide range of different source which offer opportunities
- The idea of push and pull forces and their interactions
- The need for a strategy to guide search for opportunities
- Developing and using a business plan to attract resources
- How networking helps the process of innovation through improving the range and scale of knowledge interaction
- How different networks can be designed and operated
- Formal processes of product development
- · Contextual factors and the process of creating an innovative new venture
- Advantages and disadvantages of different structures for corporate ventures
- Social Entrepreneurship and Social Innovation
- Challenges and Opportunities offered by emerging markets, meeting needs of the "bottom of the pyramid"
- · Different types of Innovation which can contribute to improved sustainability



Contents of module with emphasis on teaching content

WK1	WK2	WK3	WK4	WK5	WK6	WK7
The	Entrepreneurial	Entrepreneurial	Sources of	EXCURSION	Search	Building the
Innovation	Creativity	Creativity (+	Innovation		Strategies for	Case
Imperative		Leadership)			Innovation	
AB	AB	AB	AB	AB	AB	AB
Case 1	Group work	Case 2	Group work	Group work	Case 3	Group work

WK8	WK9	WK10	WK11	WK12	WK13	WK14
Exploiting	Developing	Creating New	Social	Innovation,	Sustainability-	Wrap-up
Networks	New Products	Ventures,	Innovation	Globalization	led Innovation	Megatrends
	and Services	Corporate		and		Pitching
		Venturing		Development		
ML	ML	ML	ML	ML	ML	ML
Case 4	Group work	Case 5	Group work	Case 6	Group work	Elevator
						Pitches

Teaching and learning methods

Flipped Classroom didactic approach complemented by case studies, excursions, workshops and frontal teaching. Units of 2x45min and 1x45 min case study. Cases are briefed and presented biweekly.

Prerequisites, previous knowledge, entrance competencies

BSc Business Engineering.

Other with basic knowledge of business principles such as marketing, accounting and controlling

Literature

Innovation & Entrepreneurship. John Bessant and Joe Tidd. 2015, 3. Ed., Wiley

Assessment

Certification requirements for final examinations (conditions for attestation)

All case studies handed in, at least one case personally presented

Written module examination

Duration of exam:120 minutesPermissible aids:Summary (2 pages A4)