CS-490	Business design for IT services				
	Wegmann Alain				
Cursus		Sem.	Туре	Language of	English
Computer science		MA2 Opt. teaching		Englion	
Mineur STAS Chine		E	Opt.	Credits	3 Summer Spring
SC master EPFL		MA2, MA4	Opt.	Session Semester	
				Exam	Oral
				Workload Weeks	90h 14
				Hours	3 weekly
				Courses	3 weekly

Summary

We teach how to "design" an IT supported business initiative. We use insights from philosophy and psychology to concretely understand business models and analysis tools. Students work in groups on a project of their choice. Concrete fieldwork outside class and substantial readings are required.

Content

Individually, the students have to read the documents listed below. They make a synthesis of their contents. They need to apply the concepts presented in these documents on case studies and on their own project.

The students work, in groups, on a project. They:

- (1) imagine a new (IT) service to develop,
- (2) identify and analyze the relevant segments,
- (3) validate their model with real customers and potential partners,
- (4) define the qualitative and quantitative goals for the new (IT) service.

To represent their business idea, the students use Trade Your Mind - a web-based business modelling service,

Keywords

Business services, IT services, business design, innovation in startups, revolutionary ventures and corporate initiatives; entrepreneur profiles.

Business design, service design, house of quality, SEAM modeling (eco-system, supplier-adopter relationship, motivation models)

Segmentation, value networks, PESTLE analysis, 5 forces analysis, core competency, coopetition, blue ocean, resource based modeling, transaction cost.

Integrated marketing concept, SWOT analysis, strategy canvas.

New technology adoption, crossing-the chasm, decision making units.

Pricing strategy, cashflow management, break-event time

Psychological types, epistemology, ontology, axiology (ethics and aesthetics).

Learning Outcomes

By the end of the course, the student must be able to:

- Create a precise and detailed description for a new business design
- Analyze environmental as well as organizational factors in a business design
- Design a business model in details (ecosystem, value, finance)
- Assess / Evaluate alternative business and technical strategies



Number of positions

- Synthesize multiple marketing theories (from seminal publications)
- Represent the key concepts of a business design (ecosystem, value, finance)
- Interpret evidences
- Investigate innovative views of a business design

Transversal skills

- Collect data.
- Access and evaluate appropriate sources of information.
- Write a scientific or technical report.
- Make an oral presentation.
- Summarize an article or a technical report.

Teaching methods Problem-based teaching + group work

Resources

Bibliography Bhide, A. (2000). The Origin and Evolution of New businesses: Oxford University Press.

Hauser, J. R., & Clausing, D. (1988). The house of Quality. Harvard Business Review. https://hbr.org/1988/05/the-house-of-quality

Golnam, A., Regev, G., Ramboz, J., Laprade, P., & Wegmann, A. (2011). Aligning Value and Implementation in Service Design - A Systemic Approach. International Journal of Service Science, Management, Engineering, and Technology (IJSSMET), 3(1), 19-36.

Porter, M. E. (2008). The Five Competitive Forces That Shape Strategy. Harvard Business Review. https://hbr.org/2008/01/the-five-competitive-forces-that-shape-strategy

Levitt, T. (1960). Marketing Myopia. Harvard Business Review. https://hbr.org/2004/07/marketing-myopia

Prahalad, C., & Hamel, G. (1990). The Core Competence of the Corporation. Harvard Business Review. https://hbr.org/1990/05/the-core-competence-of-the-corporation

Brandenburger, A. M., & Nalebuff, B. J. (1995). The Right Game: Use Game Theory to Shape Strategy. Harvard Business Review. https://hbr.org/1995/07/the-right-game-use-game-theory-to-shape-strategy

Hagel, J., & Singer, M. (1999). Unbundling the Corporation. Harvard Business Review. https://hbr.org/1999/03/unbundling-the-corporation

Kim, W. C., & Mauborgne, R. (2004). Blue Ocean Strategy, Havard Business Review. https://hbr.org/2004/10/blue-ocean-strategy

Tools: Trade Your Mind – Business modeling tool on the web www.tradeyourmind.com Note: the list is non-exhaustive.

Ressources en bibliothèque

• A Framework for Modeling Value in Service-Oriented Business Models / Golnam

- The origin and evolution of new businesses / Bhide
- The structure of "unstructured" decision processes / Mintzberg
- Value Map / Golnam
- A Modeling Framework for Analyzing the Viability of Service Systems / Golnam
- Unbundling the corporation / Hagel
- Blue Ocean Strategy / Kim
- Competitive advantage / Porter
- Marketing myopia / Levitt
- The core competence of the corporation / Prahalad
- Aligning Value and Implementation in Service Design / Golnam
- The house of quality / Hauser
- Coopetition within andbetween value networks / Golnam