MGT-409



Tucci Christopher					
Cursus	Sem.	Туре	Language of	English	
Energy Management and Sustainability	MA1, MA3	Opt.	teaching	LIIGIISII	
Management, Technology and Entrepreneurship minor	Н	Opt.	Credits Withdrawal	5 Unauthorized	
Managmt, tech et entr.	MA1, MA3	Opt.	Session Semester	Winter Fall	
			Exam	During the semester	
			Workload	150h	
			Weeks	14	
			Hours	5 weekly	
			Courses	3 weekly	
			Exercises	2 weekly	
			Number of positions	50	
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Summary

This course aims to engage students into multidisciplinary collaboration to tackle real world problems with a human centered approach. It will also provide knowledge about the role of design in innovation.

Content

With a human centered creative approach, students are encouraged to discover through observation what is meaningful and to whom, generate empathy with users, find a specific focus to the challenge and ideate on possible solutions. These must then be quickly prototyped, tested and iterated based on results. Students will work in teams to address a challenge. During the course of these challenges, students will learn the different tools and exercises to generate insights, collaborative working, idea building, rapid prototyping, and iterative testing. They will also get a global vision about how design impacts innovation: major trends, specific role of Design Thinking, insights in design research from different point of views, design, psychology and engineering. The course will include a first phase of 4 weeks dedicated to basic knowledge, tools appropriation and definition of the challenge by each team. The second phase of 8 weeks is focused on providing possible solutions for a different defined corporate challenge.

Keywords

innovation, design thinking, rapid prototyping, user empathy, ideation

Learning Prerequisites

Required courses None

Important concepts to start the course Empathy, User perception, Innovation, Design

Learning Outcomes

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

- Analyze product and service offerings in a market
- Conduct Interviews with users
- Demonstrate Protoypes



- Explore Multiple solutions
- Report All findings and innovations
- Develop Product and service innovations
- Present Findings to partners
- Design Real products, processes, and services

Transversal skills

- Communicate effectively with professionals from other disciplines.
- Communicate effectively, being understood, including across different languages and cultures.
- Demonstrate a capacity for creativity.
- · Collect data.
- Use a work methodology appropriate to the task.
- Set objectives and design an action plan to reach those objectives.
- Plan and carry out activities in a way which makes optimal use of available time and other resources.
- Evaluate one's own performance in the team, receive and respond appropriately to feedback.

Teaching methods

Lectures, guest lectures, case method, building things

Expected student activities

Group work, ideation / brainstorming, building prototypes, going into the field, talking with users and customers. Expect a higher than usual workload for this course.

A maximimum number of 50 students will be accepted in this course, however students are encouraged to attend the first two classes even if there are no spaces left on IS Academia. Please note that those students that have not attended since the first class will not be accepted.

Assessment methods

Presentation of the challenge definition, prototypes and documentation of the project as well as class participation will be graded as follow:

- Four-week project: 20%
- Eight-week challenge: 60%
- Class participation: 20%

Supervision

Office hours	Yes
Assistants	Yes
Forum	No
Others	Office hours TBD, exercises