MGT-414

Technology & innovation strategy

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Cursus	Sem.	Туре	Language of	
Digital Humanities	MA1, MA3	Opt.	teaching Credits Withdrawal Session Semester	Englis
Energy Management and Sustainability	MA1, MA3	Opt.		4 Unautl Winter Fall
Management, Technology and Entrepreneurship minor	Н	Opt.		
Managmt, tech et entr.	MA1, MA3	Opt.	Exam	
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Credits	4			
Withdrawal	Unauthorized			
Session	Winter			
Semester	Fall			
Exam	During the			
	semester			
Workload	120h			
Weeks	14			
Hours	3 weekly			
Courses	3 weekly			
Number of	60			
positions				
It is not allowed to withdraw				

It is not allowed to withdraw from this subject after the registration deadline.

Summary

Students will learn core concepts that can make innovation projects more successful and profitable, and to then apply those concepts to real business cases of known successes and failures with a focus on the economic and organizational conditions that advance technological innovation by firms

Content

This course introduces the student to the economic foundations of strategic management, and builds on those concepts to analyze the drivers of technological change, the sources of innovation, the role of incentives, the economics of information, the protections of intellectual property, and the importance of network effects and economies of scale. Building on the core concepts, the course then examines the strategic tradeoffs made by innovating companies related to decision making under uncertainty, tolerance for failure, the development of firm-specific human capital, the development of corporate culture, the timing of first-mover advantages and disadvantages, financing decisions, and alternative modes of competition and cooperation, including technology alliances, joint ventures, and corporate venture capital. Accordingly, the course objectives are three fold: (1) to develop an understanding of how innovations emerge and gain adoption in the marketplace; (2) to gain insights into how firms can transform themselves into effective innovators; and (3) to evaluate strategies and structures that enhance venture success. The course is particularly applicable for students interested in working for, or learning about, technology-oriented companies.

Keywords

Technology Innovation Strategy

Learning Outcomes

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

· Identify and evaluate strategies and structures that are more likely to lead to success

 Apply theory and best practices for assessing the potential for new ideas to convert into new products, technologies and businesses

 Apply different theoretical perspectives on technology strategy and innovation, think creatively about alternative courses of action, and ask insightful questions

Transversal skills

- Communicate effectively, being understood, including across different languages and cultures.
- Evaluate one's own performance in the team, receive and respond appropriately to feedback.

• Identify the different roles that are involved in well-functioning teams and assume different roles, including leadership roles.

- Keep appropriate documentation for group meetings.
- Resolve conflicts in ways that are productive for the task and the people concerned.
- Access and evaluate appropriate sources of information.
- Take feedback (critique) and respond in an appropriate manner.
- Summarize an article or a technical report.

Assessment methods

- 20% Class Participation and/or Contribution
- 20% Take Home Midterm Exam
- 20% Individual Report
- 20% Team Project
- 20% Take Home Final Exam

Supervision

Office hours	Yes
Assistants	Yes
Forum	No

Resources

Virtual desktop infrastructure (VDI) No

Bibliography

A reading list will be distributed at the beginning of the course. A case packet will be made available online for purchase.

Prerequisite for MGT-411 Innovation Management