

Syllabus

Descrizione corso

Titolo insegnamento	Innovation Management
Codice insegnamento	25563
Titolo aggiuntivo	
Settore Scientifico-	SECS-P/08
Disciplinare	
Lingua	Inglese
Corso di Studio	Corso di laurea magistrale in Imprenditorialità e Innovazione
Altri Corsi di Studio (mutuati)	
Docenti	prof. Alessandro Narduzzo,
	Alessandro.Narduzzo@unibz.it
	https://www.unibz.it/en/faculties/economics-
	management/academic-staff/person/5125
Assistente	
Semestre	Secondo semestre
Anno/i di corso	1
CFU	5
Ore didattica frontale	30
Ore di laboratorio	-
Ore di studio individuale	-
Ore di ricevimento previste	15
Sintesi contenuti	The course prepares students to analyze problems and make informed decisions related to innovation and its management. Students learn models, tools, and methods to manage innovation within organizations. In particular, the course covers the following topics: - Managing innovation in a systemic perspective - Sources of innovation - Types of innovation - Patterns and models of innovation - Technological cycles



	 Managing innovation in Open Systems Managing exaptative innovation and technological speciation Innovation management tools Innovation management metrix Building innovative organizations: experimentation and psychological safety Ambidexterity.
Argomenti	Course presentation
dell'insegnamento	Learning goals, approach, teaching format, learning materials and how they are selected to be consistent with the nature of the course.
	1. Innovation, innovative firms, innovation management – An introduction.
	Why does innovation matter? How do practitioners and scholars think about innovation?
	Why and how do organizations want to manage the innovation journey?
	This first session introduces the framework adopted in this course to approach innovation and select the topics.
	2. Innovation management: problems, myths, traps.
	This part of the course offers a problematic perspective for framing the management of innovation, both as a phenomenon and as a domain of expertise; any further theorizing can be reconnected to
	this foundation.
	3. Innovation: models and conceptualizations.
	In this section, we review and discuss well-known definitions,
	conceptualizations, and models. Concepts and models provide
	complementary perspectives to understand innovation phenomena through multiple lenses.
	4. Managing innovation in open systems.
	To innovate, firms often need to draw from various outside sources
	of knowledge. At the same time, they also need to be focused on
	capturing returns to their innovative ideas. This gives rise to a
	paradox of openness - the creation of innovations often requires
	openness, and the commercialization of innovations requires appropriability.
	5. Managing innovation as exaptation.
	Innovation management through an evolutionary perspective. Innovation management consists of managing a system of

interdependent and evolving components. Innovation as exaptation



	will be discussed.
	6. Innovation management: techniques and tools.
	We review a repertoire of tools traditionally adopted by firms to
	manage innovation. We discuss to what extent they cope with the
	problems introduced in Class 3. In particular, we wish to focus on
	those tools that deal with complexity and uncertainty.
	7. Innovation management: innovation measurements.
	Measuring innovation is a tricky issue. On the one hand, there is a
	need to assess the impact of innovation; on the other hand, the
	complexity of the phenomenon suggests avoiding simplistic
	solutions. The most common measures of innovation look at inputs
	(e.g. intensity of R&D investment) or outputs (e.g. number of
	patents). The approach proposed for this class proposes to extend
	this repertoire by including the assessment of the innovation as a
	process.
	8. Building innovative organizations: experimentation.
	Innovation is conceived as a process of experimentation that is
	grounded on a trial-and-error logic. Its effectiveness depends on
	the organization's ability to adopt and adapt to this mindset
	consistently.
	Organizational culture may inhibit innovation. Building a
	psychologically safe environment is regarded as a contextual
	condition to nurture innovation.
	9. Building innovative organizations: ambidexterity.
	Firms may adopt organizational forms that are more suitable to
	support innovation. Through the concepts of organizational
	ambidexterity and organizational bricolage, we discuss how firms
	may combine exploration and exploitation.
Parole chiave	innovation, innovation cycle, uncertainty, experimentation,
Tarolo dinavo	exaptation, innovation management tools.
Prerequisiti	
Insegnamenti propedeutici	
Modalità di insegnamento	The course is based on both theoretical lectures and the discussion
	of case studies and other empirical materials, and it requires the
	active participation of students in class discussions.
Obbligo di frequenza	
Obiettivi formativi specifici e	
risultati di apprendimento	
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attesi	
Obiettivi formativi specifici e risultati di apprendimento attesi (ulteriori info.)	
Modalità di esame	Written (closed books) final exam (60 minutes). It consists of open questions to assess both acquired knowledge and analytical competencies. A case will be made available on the Teams platform a few days before the exam. Students are expected to read the case in advance and to bring a paper copy of the case to the exam. Some questions assess the students' ability to use the acquired knowledge to analyze the case.
Criteri di valutazione	 The evaluation criteria are the following: Appropriateness of the answer and commanding the contents Structure and coherence of the answer Mastering critical analysis
Bibliografia obbligatoria	For each topic, the readings are listed according to the order of reading. Innovation, innovative firms, innovation management – An introduction. Baregheh A., Rowley J., & S. Sambrook. 2009. Towards a multidisciplinary definition of innovation. Management Decision, 47, 8, 1323-1339. Cheng, J.Y.J. and Groysberg, B., 2018. Innovation Should Be a Top Priority for Boards. So Why Isn't It?. Harvard Business Review. Tidd, J., & Bessant, J. 2020. Managing Innovation: Integrating Technological, Market and Organizational Change (6th ed.). Wiley. Chapters 1. Innovation reports issued by IBM, PwC and McKinsey, made available in the Team folder collecting the course readings. Banholzer, M., LaBerge, L., West, A. & Williams, E. (2023). How innovative companies leverage tech to outperform. McKinsey Report. Innovation management: problems, myths, traps.

Innovation. Management Science, 32, 5, 590-607.

Williams T.M. 1999. The need for new paradigms for complex projects, International Journal of Project Management Vol. 17, No. 5, pp. 269-273.

Mendonca, L.T., Sneader, K.D. 2007. Coaching innovation: An interview with Intuit's Bill Campbell. The McKinsey Quarterly. February.

Innovation: models and conceptualizations.

Schilling, M. A. 2022. Strategic Management of Technological Innovation (7th ed.). McGraw-Hill. **Chapter 3**.

Bagno, R.B., Salerno, M.S. and da Silva, D.O., 2017. Models with graphical representation for innovation management: a literature review. R&D Management, 47(4), pp.637-653.

Managing innovation in open systems.

Bogers, M., Chesbrough, H., & Moedas, C. 2018. "Open Innovation: Research, Practices, and Policies." California Management Review, 60(2), 5-16.

Von Hippel, E. 2019. The Free Innovation Paradigm. In **Chen**, J., Brem, A., Viardot, E. and Wong, P.K. eds. The Routledge companion to innovation management. Routledge. **Chapter 8**.

Frank Piller, Sumit Mitra, and Susanna Ghosh MitraVon Hippel, E. 2019. Bringing Open Innovation into Practice. In **Chen**, J., Brem, A., Viardot, E. and Wong, P.K. eds. The Routledge companion to innovation management. Routledge. **Chapter 10**.

Managing innovation as exaptation.

Andriani, P., & Cattani, G. 2016. Exaptation as source of creativity, innovation, and diversity: Introduction to the special section. Industrial and Corporate Change, 25(1), 115-131.

Adner R., & D. A. Levinthal. 2002. The Emergence of Emerging Technologies. California Management Review, 45, 1, 50-66.

Innovation management: techniques and tools.



Chen, J., Brem, A., Viardot, E. and Wong, P.K. eds., 2019. The Routledge companion to innovation management. Routledge. **Chapter 26.**

Haefner, N., Wincent, J., Parida, V. and Gassmann, O., 2021. Artificial intelligence and innovation management: A review, framework, and research agenda;. Technological Forecasting and Social Change, 162, p.120392.

List of IM tools from The Innovation Tools Handbook.

Innovation management: innovation measurements.

Gamal, D. 2011. How to measure organizational innovativeness? An overview of Innovation framework and Innovation audit. TIEC.

Björk, J., Frishammar, J., & Sundström, L. 2023. Measuring Innovation Effectively—Nine Critical Lessons. Research-Technology Management, 66(2), 17-27.

Building innovative organizations: experimentation.

Thomke S. 2001. Enlightened experimentation: The new imperative for innovation. Harvard Bus. Rev. 79(2) 66–75.

Edmondson A.C. 2011. Strategies For Learning From Failure. Harvard Business Review. April 48-55.

Building innovative organizations: ambidexterity.

Birkinshaw J., C. Gibson. 2004. Building Ambidexterity Into an Organization. MIT Sloan Management Review, Summer. 47-55.

Pisano, G.P., 2019. The Hard Truth About Innovative Cultures. Harvard Business Review.

Bibliografia facoltativa

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Innovation management: problems, myths, traps.

Van de Ven A.H. 1986. Central Problems in the Management of Innovation. Management Science, 32, 5, 590-607.

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Altre informazioni



Obiettivi di Sviluppo	Partnership per gli obiettivi, Innovazione e infrastrutture
Sostenibile (SDGs)	