SYLLABUS DEL CORSO

Digital Economy

2122-2-F9101Q018-F9101Q019M

Obiettivi

The course Digital Economy is designed to understand the economic foundations of the new digital world. Moreover, it wants to support students to confidently conceive, lead and execute digital innovation initiatives and develop new business models for existing and insurgent organizations.

The digital revolution is rapidly transforming the fundamental nature of many companies in a wide range of industries: students need to understand the economics, technology paradigms and management practices of innovating in digital-centric businesses to ensure corporate and personal success.

The course is intended for students pursuing careers in which digital technologies will be critical to the development of new products and services, e.g., entrepreneurial start-ups, consulting, and R&D, as well as positions in marketing, operations, and strategy inside larger enterprises.

Contenuti sintetici

Specifically, the course will help students learn:

- the economic and technological factors that are at the heart of the digital revolution taking place in the economy
- examining the nature of information as an asset, and defining the laws that govern its behaviour as an economic good

- the clash between existing business models and new digitally enhanced and led business models emphasizing platforms and ecosystems
- the competitive interactions among firms with different digital business models
- how to best organize and lead product and service innovation initiatives in the digital space and how to leverage on what you learnt to be successful in the professional world.

Programma esteso

Lecture 1 – 9th March 2022 (8.30-10.30)

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Lecture 2 – 10th March 2022 (8.30-11.30)

Measuring the value of Information: an asset valuation approach

- Moody & Walsh - "7 Laws" governing the behaviour of the information as an economic good
- Max Boisot
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Lecture 3 – 16th March 2022 (8.30-10.30)

The Intangible Economy (Part 1)

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- Synergies

Lecture 4 – 17th March 2022 (9.30-11.30)

The Intangible Economy (Part 2)

- Intangible assets and secular stagnation
- Intangible and the rise of inequality
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Lecture 5 – 23rd March 2022 (8.30-10.30)

The Platform Economy (Part 1)

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Lecture 6 – 24th March 2022 (9.30-11.30)

The Platform Economy (Part 2)

- Architecture: Designing a successful platform
- Monetizing the network effects
- Factors affecting platforms
- The future of Platform Revolution

Lecture 7 – 30th March 2022 (8.30-10.30)

Rethinking strategy and operating models in the age of AI

- Traditional vs digital operating model
- Transforming value creation, capture, and delivery
- New competition and market structure
- Case studies

Lecture 8 – 31st March 2022 (8.30-11.30)

The Intangible Economy (Part 3)

Guest Speaker: Prof. Ferdinando Ametrano

"New dimensions of the intangible economy: ___

Lecture 9 – 6th April 2022 (8.30-10.30)

Datafication- Reinventing Capitalism in the age of Big Data

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- Datafication
- Markets and Money
- Data Rich markets
- Key technologies essential to reconfiguring the markets

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- What is a business model?
- The Business Model Canvas (BMC)
- Mapping the BMC
- Methodology for building a BMC
- Case studies

Lecture 11 – (tbd)

Presentation of business model innovation projects by the students

Prerequisiti

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Modalità didattica

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Materiale didattico

Suggested readings

- Batini, C; Cabitza, F; Cherubini, P; Ferrari, A; Masiero, R; Maurino, A; Palmonari, M; Stella, F, "La scienza dei dati, Cap. 13" La Scienza Dei Dati (unimib.it)
- Jonathan Haskel and Stian Westlake – Capitalism without Capital – The Rise of the Intangible Economy. Princeton University Press, 2018
- Michael A. Cusumano, Annabelle Gawer, David B. Yoffe, "The Business of Platforms", Harper Collins,

2019

- Hal R. Varian, Josef Farrel, Carl Shapiro, "The Economics of Information Technology. An Introduction" (Raffaele Mattioli Lectures), Cambridge University Press, 2005
- Daniel Moody & Peter Walsh, "Measuring the value of Information: an asset valuation approach", ECIS 99, Copenhagen 1999 (available at https://bit.ly/29JucLO)
- Viktor Mayer-Schonenberg and Thomas Ramge, "Reinventing capitalism in the age of Big Data", John Murray Publishers, London 2018
- Matteo Fusco, Business Design per le PMI, Edizioni LSWR, Milano, 2017
- Marco Iansiti, Karim R. Lakhani, "Competing in the Age of AI – Strategy and Leadership when Algorithms and Networks Run the World", Harvard Business Review Press, 2020

Periodo di erogazione dell'insegnamento

Second semester

Modalità di verifica del profitto e valutazione

Orario di ricevimento

Please contact the teacher via email