



## Course Syllabus

<b>Course Code</b>	<b>Course Title</b>	<b>ECTS Credits</b>
MBAN-789	Management of Technological Innovation	6
<b>Prerequisites</b>	<b>Department</b>	<b>Semester</b>
None	School of Business	Fall, Spring
<b>Type of Course</b>	<b>Field</b>	<b>Language of Instruction</b>
Concentration	Entrepreneurship & Digital Transformation	English
<b>Level of Course</b>	<b>Lecturer(s)</b>	<b>Year of Study</b>
2 <sup>nd</sup> Cycle	Dr. Despo Ktoridou	1 <sup>st</sup> or 2 <sup>nd</sup>
<b>Mode of Delivery</b>	<b>Work Placement</b>	<b>Corequisites</b>
Face to Face	N/A	None

### Course Objectives:

The main objectives of the course are to:

- Identify ways to assess the Industry Dynamics of Technological Innovation
- Define and evaluate technology strategy
- Provide an understanding to the process of formulating technology innovation strategy
- Apply the acquired knowledge to implement Technology Innovation Strategy

### Learning Outcomes:

After completion of the course students are expected to be able to:

- **recognize the various ways to assess the Industry Dynamics of Technological Innovation** (students should understand how technology evolves over time, the various sources, types and patterns of innovations, meet the standards battles and design dominance as well as make the right decision when is the right time to introduce a product into the market)
- **understand the importance and role of technology strategy;** (students will acquire the necessary knowledge and understanding on what is technology strategy its importance as well as how is different from a business strategy)
- **use the core information to formulate** technological innovation strategy (students will acquire skills to formulate technological innovation strategy by: selecting innovation projects, implementing collaboration strategies using the various protection tools to secure innovations (*patens, trade secrets, trademarks, and copyrights*)).

- **design, develop and discuss a Technological Innovation Strategy** (students will acquire the necessary knowledge and understanding to organize for Innovation, manage the New Product Development Process as well as the human resources)

**“Details on the contribution of the course’s learning outcomes towards the learning goals / competencies and learning objectives of the programme are included in the curriculum map of each programme”.**

### **Course Content:**

#### **Part I – Industry Dynamics of Technological Innovation**

- Sources of Innovation
- Types and Patterns of Innovation
- Standards Battles and Design Dominance
- Timing of Entry

#### **Part II – Formulating Technological Innovation Strategy**

- Defining the Organization’s Strategic Direction
- Choosing Innovation Projects
- Collaboration Strategies
- Protecting Innovation

#### **Part III – Implementing Technological Innovation Strategy**

- Organizing for Innovation
- Managing the New Product Development Process
- Managing New Product Development Teams
- Crafting a Deployment Strategy

### **Learning Activities and Teaching Methods:**

Teaching material including PowerPoint presentations and additional readings; Case studies and other suggested Readings (Scientific papers, journal Articles); Formative and summative assessments.

### **Assessment Methods:**

Assessments, Web Ex Participation, Project, Final Exam

**Required Textbooks / Readings:**

<b>Title</b>	<b>Author(s)</b>	<b>Publisher</b>	<b>Year</b>	<b>ISBN</b>
Strategic Management of Technological Innovation 5 <sup>th</sup> Ed.	Melissa A. Schilling	McGraw Hill	2017	10: 1259539067

**Recommended Textbooks / Readings:**

<b>Title</b>	<b>Author(s)</b>	<b>Publisher</b>	<b>Year</b>	<b>ISBN</b>
Future of Technology Management and the Business Environment, The: Lessons on Innovation, Disruption, and Strategy Execution	Alfred A. Marcus	Prentice Hall	2016	10: 0133996131
Technology Strategy for Managers and Entrepreneurs: Pearson New International Edition 1st Ed.	Scott A. Shane,	Prentice Hall	2014	10: 1292040327
Managing Engineering and Technology, International Edition, 6 <sup>th</sup>	Ed.Lucy C. Morse	Prentice Hall	2015	10: 0273793225