

**City University of Hong Kong
Course Syllabus**

**offered by College of Business
with effect from Semester A 2020/21**

Part I Course Overview

Course Title: Technology Management for Innovation

Course Code: FB6894

Course Duration: 4 weeks (Intensive study): Pre-class online study (40 hrs) +
Intensive class meeting (40 hrs in 5 days) + Out-of-the-class work (80 hrs)

Credit Units: 4

Level: P6

Proposed Area: Arts and Humanities
(for GE courses only) Study of Societies, Social and Business Organisations
 Science and Technology

Medium of Instruction: English

Medium of Assessment: English

Prerequisites: Nil
(Course Code and Title)

Precursors: Nil
(Course Code and Title)

Equivalent Courses: Nil
(Course Code and Title)

Exclusive Courses: Nil
(Course Code and Title)

Part II Course Details

1. Abstract

(A 150-word description about the course)

This course aims to equip students with the ability to analyse various practices for technology management in innovative firms, to evaluate prospects of emerging technologies on business practices, and to create strategic plans on project management for innovation.

2. Course Intended Learning Outcomes (CILOs)

(CILOs state what the student is expected to be able to do at the end of the course according to a given standard of performance.)

No.	CILOs [#]	Weighting* (if applicable)	Discovery-enriched curriculum related learning outcomes (please tick where appropriate)		
			A1	A2	A3
1.	Analyse various practices for technology management in innovative firms.		✓	✓	✓
2.	Evaluate prospects of emerging technologies on business practices.		✓	✓	✓
3.	Create strategic plans on project management for innovation.		✓	✓	✓
		100%			

* If weighting is assigned to CILOs, they should add up to 100%.

[#] Please specify the alignment of CILOs to the Gateway Education Programme Intended Learning outcomes (PILOs) in Section A of Annex.

A1: Attitude

Develop an attitude of discovery/innovation/creativity, as demonstrated by students possessing a strong sense of curiosity, asking questions actively, challenging assumptions or engaging in inquiry together with teachers.

A2: Ability

Develop the ability/skill needed to discover/innovate/create, as demonstrated by students possessing critical thinking skills to assess ideas, acquiring research skills, synthesizing knowledge across disciplines or applying academic knowledge to self-life problems.

A3: Accomplishments

Demonstrate accomplishment of discovery/innovation/creativity through producing /constructing creative works/new artefacts, effective solutions to real-life problems or new processes.

3. Teaching and Learning Activities (TLAs)

(TLAs designed to facilitate students' achievement of the CILOs.)

TLA	Brief Description	CILO No.			Hours/week (if applicable)
		1	2	3	
1	Pre-class Online Study	✓	✓	✓	
2	Seminars	✓	✓	✓	
3	Expert Sharing	✓	✓	✓	
4	Group and Individual Projects	✓	✓	✓	

4. Assessment Tasks/Activities (ATs)

(ATs are designed to assess how well the students achieve the CILOs.)

Assessment Tasks/Activities	CILO No.			Weighting*	Remarks
	1	2	3		
Continuous Assessment: <u>100%</u>					
Individual Project/Assignment	✓	✓	✓	50%	
Group Project/ Assignment	✓	✓	✓	50%	
Examination: ____ (duration: _____, if applicable)					
* The weightings should add up to 100%.				100%	

5. Assessment Rubrics

(Grading of student achievements is based on student performance in assessment tasks/activities with the following rubrics.)

Assessment Task	Criterion	Excellent (A+, A, A-)	Good (B+, B, B-)	Fair (C+, C, C-)	Marginal (D)	Failure (F)
Individual Project/ Assignment Group Project/ Assignment	Integration and application of knowledge to formulate strategic plans and provide solutions to simulate real business situations.	Demonstrate well-thought strategic thinking in formulating plans and providing solutions.	Demonstrate slightly well-thought strategic thinking in formulating plans and providing solutions.	Demonstrate some degree of strategic thinking in formulating plans and providing solutions.	Demonstrate a small degree of strategic thinking in formulating plans and providing solutions.	Demonstrate no strategic thinking in formulating plans and providing solutions.

Part III Other Information (more details can be provided separately in the teaching plan)

1. Keyword Syllabus

(An indication of the key topics of the course.)

- Innovation Patterns of Technologies
- Global Technology and Innovation
- Technology Management Practices in Innovative Firms
- Technology Policy and Regulation
- Emerging Technologies: Past, Present, Future
- Strategic Issues on Managing Technological Changes

2. Reading List

2.1 Compulsory Readings

(Compulsory readings can include books, book chapters, or journal/magazine articles. There are also collections of e-books, e-journals available from the CityU Library.)

2.2 Additional Readings

(Additional references for students to learn to expand their knowledge about the subject.)

- Schilling (2020). Strategic Management of Technological Innovation. Wiley.
- Kerzner (2019) Innovation Project Management: Methods, Case Studies, and Tools for Managing Innovation Projects. Wiley.
- Tidd & Bessant (2018) Managing Innovation: Integrating Technological, Market and Organizational Change. Wiley.
- Jin & Cedrola (Eds) (2020) Process Innovation in the Global Fashion Industry. Springer.
- Sigala, Rahimi & Thelwall (Eds.) (2019) Big Data and Innovation in Tourism, Travel, and Hospitality: Managerial Approaches, Techniques, and Applications. Springer.
- Herzlinger (2020) Innovating in Healthcare: Creating Breakthrough Services, Products, and Business Models. Wiley.
- Marr & Ward (2019) Artificial Intelligence in Practice: How 50 Successful Companies Used AI and Machine Learning to Solve Problems. Wiley.
- (2019) Innovation Project Management: Methods, Case Studies, and Tools for Managing Innovation Projects. Wiley.