Syrian Arab Republic	الجمهوريّة العربيّة السوريّة
Ministry of Higher Education and Scientific Research	وزارة التعليـم العالـــي والبحث العلمي
Syrian Virtual University	الجامعة الافتراضيّة السوريّة

Course Syllabus

1- Basic Information:

Course Name	Cases in Technology Management
Course ID	**CTM**
Contact Hours (Registered Sessions)	16 Hours
Contact Hours (Synchronized Sessions)	16 Hours
Mid Term Exam	–
Exam	1h15min
Registered Sessions Work Load	16 Hours
Synchronized Session Work Load	16 Hours
Credit Hours	4

2- Pre-Requisites: Non.

3- Course Objectives:

The technological success achieved by some institutions and countries has not been mere coincidence, but a result of good planning and management. In contrast, some technological experiences have been stymied by inadequate dealing with competitors, partners or market, in addition to poor internal organization of technology-based functions. This course will highlight several experiences in technology management with objective to analyze and discover the factors of their success or failure, and to draw lessons for good management of technology.

Intended Learning Outcomes (ILO):

Code	Intended Learning Outcomes
ILO1	Explain the circumstances and supporting factors that accompanied the establishment of a technological experience, also, the terminology and concepts used in these studies.
ILO2	Explain the pillars on which a technology experience was based, and review its vision and methodology.
ILO3	Explain the reasons for the success or failure of the technology experiences according to a set of analysis tools.
ILO4	Explain how to manage technology and innovation projects, how to evaluate the success of a technology based project, and the feasibility of available technologies.

4- Course content

Chapter Number	Chapter Title	Summary	ILO
1	National Innovation System	Introduces the course and defines the national innovation system, its main institutions, relationship with contributors, and its innovative process.	ILO1
2	Case1: Kodak	Introduces the experience of the Kodak company, and analyzes its success and failure.	ILO1 ILO2 ILO3 ILO4
3	Case2: Mobile Phone Industry	Introduces the experience of the mobile phone manufacturers (Nokia - BlackBerry - Apple), and analyzes their success and failure.	ILO1 ILO2 ILO3 ILO4
4	Case3: Iridium Satellite Communications	Introduces Iridium's satellite communications experience and analyzes the technological errors that led to the failure.	ILO1 ILO2

			ILO3
			ILO4
5	Case4: China-India cooperation in the field of IT	Introduces the China-India cooperation in the field of information technology, what methods adopted in both countries for the transfer and implementation of technology, and the bets that led to the success of the experience.	ILO1
			ILO2
			ILO3
			ILO4
6	Case5:Technology incubators in Malaysia	Introduces the success of the Malaysian technology incubators in transfer and implementation of technology.	ILO1
			ILO2
			ILO3
			ILO4
7	Case6: Industrial Development Agency (Ireland)	Introduces the experience of the Irish Industrial Development Agency, and its success in the transfer, implementation and investment of technology in Ireland.	ILO1
			ILO2
			ILO3
			ILO4

5− Assessment Criteria (Related to ILOs)

ILO codes	Intended Learning Outcomes	Home work	Synchronized Sessions	Exam
	To achieve ILO the student should be able to:			
ILO1	1− Understand and characterize the national innovation system	*	*	*
	2− Understand and analyze the circumstances that accompanied the establishment of a technological experience	*	*	*
	3− Properly deal with concepts and terminology used in the study of technological experiences	*	*	*
ILO2	1− Understand and analyze the pillars of	*	*	*

	technological experiences			
	2− Understand the methodology of transfer, implementation and investment of technology	*	*	*
ILO3	1− Analyze the factors leading to the success of a technological experience	*	*	*
	2− Analyze the reasons of failure of a technological experience	*	*	*
ILO4	1− Management of a successful start of technological projects	*	*	*
	2− Properly evaluate the Opportunities of a technological project	*	*	*
	3− Evaluate the feasibility of available technologies	*	*	*
	4− choose the appropriate methods to innovate in technology	*	*	*

6− **Practice Tools: Non**

7− **Main References**

- All content of the course can be downloaded from Moodle course page as Pdf files and registered sessions.

- Synchronized sessions.

8− **Additional References**

o "Research and Development Management", Ebook, Editors: **T. Daim, J. Kim, K. Phan**, Edition 1, 2017, *Springer, ISBN 978-3-319-54537-0*.

o *"Good Technology Bad Managment, Case Study of Satallite phone industry"*, **J. LIM, R. Klein, J. Thatcher**, *Journal of Information Technology Management , Volume XVI, Number 2*, 2005

o السياسة الوطنية للعلوم والتقانة والابتكار في الجمهورية العربية السورية، منشورات الهيئة العليا للبحث العلمي، أيلول 2017