

Tamkang University Academic Year 103, 2nd Semester Course Syllabus

Course Title	TECHNOLOGY MANAGEMENT	Instructor	SUN, CHIA-CHI
Course Class	TLFXB3A DEPARTMENT OF INTERNATIONAL BUSINESS, 3A	Details	<ul style="list-style-type: none"> ◆ Selective ◆ One Semester ◆ 3 Credits
D e p a r t m e n t a l A i m o f E d u c a t i o n			
<p>I. To instill the university motto of "Simplicity, Firmness, Perseverance, and Fulfillment" into students.</p> <p>II. By integrating the "Five Disciplines" of education, the qualities of conduct, intelligence, physical education, teamwork, and beauty into the professional, core, and extracurricular curriculum, the department helps to produce well-rounded students skilled in identifying and solving problems.</p> <p>III. To oversee the trend and foresee the development of global economy, the department aims to produce the graduates with expertise in the fields of International Business and Trade.</p>			
D e p a r t m e n t a l c o r e c o m p e t e n c e s			
<p>A. Breeding professionals with expertise in general International Trade and International Business.</p> <p>B. Consisting of Globalization, Information-Oriented and Future-Oriented education.</p> <p>C. Producing graduates with capability of foreseeing and analyzing the development of Global Economy.</p> <p>D. Breeding professionals with expertise in Marketing and Financial Management.</p>			
Course Introduction	<p>This course focuses on the strategic management of technology and innovation in the business environment—both new firms and established firms. The conceptual framework of the course is an evolutionary process perspective on technology strategy and innovation.</p> <p>This course draws on strategic management, economics, and organization theory for tools to address important challenges faced by managers in firms where technology is changing. This technology may be information, product, process and/or administrative.</p>		

The Relevance among Teaching Objectives, Objective Levels and Departmental core competences

I.Objective Levels (select applicable ones) :

- (i) Cognitive Domain : C1-Remembering, C2-Understanding, C3-Applying,
C4-Analyzing, C5-Evaluating, C6-Creating
- (ii) Psychomotor Domain : P1-Imitation, P2-Mechanism, P3-Independent Operation,
P4-Linked Operation, P5-Automation, P6-Origination
- (iii) Affective Domain : A1-Receiving, A2-Responding, A3-Valuing,
A4-Organizing, A5-Charaterizing, A6-Implementing

II.The Relevance among Teaching Objectives, Objective Levels and Departmental core competences :

- (i) Determine the objective level(s) in any one of the three learning domains (cognitive, psychomotor, and affective) corresponding to the teaching objective. Each objective should correspond to the objective level(s) of ONLY ONE of the three domains.
- (ii) If more than one objective levels are applicable for each learning domain, select the highest one only. (For example, if the objective levels for Cognitive Domain include C3,C5,and C6, select C6 only and fill it in the boxes below. The same rule applies to Psychomotor Domain and Affective Domain.)
- (iii) Determine the Departmental core competences that correspond to each teaching objective. Each objective may correspond to one or more Departmental core competences at a time. (For example, if one objective corresponds to three Departmental core competences: A,AD, and BEF, list all of the three in the box.)

No.	Teaching Objectives	Relevance	
		Objective Levels	Departmental core competences
1	<ul style="list-style-type: none"> • To develop understanding about the process of bringing “newness” into an organization—through internal innovation and/or through external strategic alliances. •To develop a conceptual framework for assessing and auditing the technology capabilities of a business organization. •To develop insight concerning the skills necessary to be effective as a general manager in the innovation process and/or alliance building process. 	C3	ABCD

Teaching Objectives, Teaching Methods and Assessment

No.	Teaching Objectives	Teaching Methods	Assessment

1	<ul style="list-style-type: none"> • To develop understanding about the process of bringing “newness” into an organization—through internal innovation and/or through external strategic alliances. •To develop a conceptual framework for assessing and auditing the technology capabilities of a business organization. •To develop insight concerning the skills necessary to be effective as a general manager in the innovation process and/or alliance building process. 	Lecture, Discussion	Written test, Report, Participation
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This course has been designed to cultivate the following essential qualities in TKU students

Essential Qualities of TKU Students	Description
◆ A global perspective	Helping students develop a broader perspective from which to understand international affairs and global development.
◇ Information literacy	Becoming adept at using information technology and learning the proper way to process information.
◇ A vision for the future	Understanding self-growth, social change, and technological development so as to gain the skills necessary to bring about one's future vision.
◇ Moral integrity	Learning how to interact with others, practicing empathy and caring for others, and constructing moral principles with which to solve ethical problems.
◇ Independent thinking	Encouraging students to keenly observe and seek out the source of their problems, and to think logically and critically.
◇ A cheerful attitude and healthy lifestyle	Raising an awareness of the fine balance between one's body and soul and the environment; helping students live a meaningful life.
◆ A spirit of teamwork and dedication	Improving one's ability to communicate and cooperate so as to integrate resources, collaborate with others, and solve problems.
◇ A sense of aesthetic appreciation	Equipping students with the ability to sense and appreciate aesthetic beauty, to express themselves clearly, and to enjoy the creative process.

Course Schedule

Week	Date	Subject/Topics	Note
1	104/02/24 ~ 104/03/01	Introduction of the Course	
2	104/03/02 ~ 104/03/08	Management of Technology and Innovation: An Overview	

3	104/03/09 ~ 104/03/15	Strategy and the Management of Technology and Innovation	Case Study 1
4	104/03/16 ~ 104/03/22	Innovation: Planning	Case Study 2; Small quiz 1
5	104/03/23 ~ 104/03/29	Internal Innovation: Implementation	Case Study 3
6	104/03/30 ~ 104/04/05	Innovation: Evaluation and Control	Case Study 4
7	104/04/06 ~ 104/04/12	Obtaining Technology: Planning	Case Study 5; Small Quiz 2
8	104/04/13 ~ 104/04/19	教學行政觀摩日	
9	104/04/20 ~ 104/04/26	Obtaining Technology: Implementation	Case Study 6
10	104/04/27 ~ 104/05/03	Midterm Exam Week	
11	104/05/04 ~ 104/05/10	Obtaining Technology: Evaluation & Control	Case Study 7
12	104/05/11 ~ 104/05/17	Building Capabilities for MTI Success	Case Study 8
13	104/05/18 ~ 104/05/24	Organizational Learning & Knowledge Management	Case Study 9; Small Quiz 3
14	104/05/25 ~ 104/05/31	Innovation Project Management and New Product Development	
15	104/06/01 ~ 104/06/07	Group Presentation	Group 1~Group 3
16	104/06/08 ~ 104/06/14	Group Presentation	Group 4~Group 6
17	104/06/15 ~ 104/06/21	Group Presentation	Group 7~Group 9
18	104/06/22 ~ 104/06/28	Final Exam Week	
Requirement			
Teaching Facility		Computer, Projector	
Textbook(s)		The Management of Technology and Innovation: A Strategic Approach by Margaret A. White and Garry D. Bruton	
Reference(s)		Strategic Management of Technological Innovation by Melissa A. Schiling	

Number of Assignment(s)	(Filled in by assignment instructor only)
Grading Policy	<p>◆ Attendance : 20.0 % ◆ Mark of Usual : % ◆ Midterm Exam : 30.0 %</p> <p>◆ Final Exam : 20.0 %</p> <p>◆ Other (Group Presentation) : 30.0 %</p>
Note	<p>This syllabus may be uploaded at the website of Course Syllabus Management System at http://info.ais.tku.edu.tw/csp or through the link of Course Syllabus Upload posted on the home page of TKU Office of Academic Affairs at http://www.acad.tku.edu.tw/CS/main.php.</p> <p>※ Unauthorized photocopying is illegal. Using original textbooks is advised. It is a crime to improperly photocopy others' publications.</p>