Tamkang University Academic Year 103, 1st Semester Course Syllabus

Course Title	GLOBAL TECHNOLOGY REVOLUTION	Instructor	HUANG-WEN HUANG
Course Class	TQIAB2A DIVISION OF SOFTWARE ENGINEERING, DEPARTMENT OF INNOVATIVE INFORMATION AND TECHNOLOGY, 2A	Details	◆ Required ◆ One Semester ◆ 2 Credits

Academic Aim of Education

Students will understand recent development of modern science and technology and its impact on human society and global environment. Through the design of course students will also be familiar with broadly-based fundamental technical knowledge and improve.

Schoolwide essential virtues

A. A global perspective.

B. Information literacy.

C. A vision for the future.

D. Moral integrity.

E. Independent thinking.

F. A cheerful attitude and healthy lifestyle.

G. A spirit of teamwork and dedication.

H. A sense of aesthetic appreciation.

Course Introduction	1.Comment the meaning and definition of the "Global Technology Revolution". 2.Explain how technology influence and reconstruct the entire world. 3.Use the allusion, example to describe the phenomenon of the development, application and management of technology in the full spectrum. 4.Use group discussion and movie watch to explore the relationship between humanity and technology.

The Relevance among Teaching Objectives, Objective Levels and Schoolwide essential virtues

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 Schoolwide essential virtues :
 (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 Schoolwide essential virtues that correspond to each teaching objective.
     Each objective may correspond to one or more Schoolwide essential virtues at a time.
     (For example, if one objective corresponds to three Schoolwide essential virtues: A,AD,
     and BEF, list all of the three in the box.)

No.	Teaching Objectives	Relevance	
		Objective Levels	Schoolwide essential virtues
1	Recognize the nature and the influence of technology.	C4	AC
2	Understand the trend of globalization.	C5	AC
3	Enhance the knowledge of management.	P4	AC
4	Improve the capability of expression.	A5	AC

Teaching Objectives, Teaching Methods and Assessment

No.	Teaching Objectives	Teaching Methods	Assessment
1	Recognize the nature and the influence of technology.	Lecture, Discussion, Appreciation	Written test, Report, Participation
2	Understand the trend of globalization.	Lecture, Discussion, Appreciation	Written test, Report, Participation
3	Enhance the knowledge of management.	Lecture, Discussion, Appreciation	Written test, Report, Participation
4	Improve the capability of expression.	Lecture, Discussion, Appreciation	Written test, Report, Participation

Course Schedule

Week	Date	Subject/Topics	Note
1	103/09/15 ~ 103/09/21	Syllabus and Instruction	
2	103/09/22 ~ 103/09/28	Preliminary, the Introduction of GTR	

3	103/09/29 ~ 103/10/05	Ch1 Computer I, Development of Hardware & Software	
4	103/10/06 ~ 103/10/12	Ch2 Computer II, Network	
5	103/10/13 ~ 103/10/19	Ch1&2 Team Report, Discussion (1), Ch3 E-Commerce, Everything Go fast	
6	103/10/20 ~ 103/10/26	Ch3 E-Commerce, Everything Go fast	
7	103/10/27 ~ 103/11/02	Ch3 Team Report, Discussion (2), Ch4 Biology Technology, Angel or Demon?	
8	103/11/03 ~ 103/11/09	Spring vocation	
9	103/11/10 ~ 103/11/16	Movie	TBD
10	103/11/17 ~ 103/11/23	Midterm Exam Week	
11	103/11/24 ~ 103/11/30	Ch4 Biology Technology, Angel or Demon?	
12	103/12/01 ~ 103/12/07	Ch4 Team Report, Discussion (3), Ch5 Entertainment, Between Virtual and Reality	
13	103/12/08 ~ 103/12/14	Ch5 Entertainment, Between Virtual and Reality	
14	103/12/15 ~ 103/12/21	Ch5 Team Report, Discussion (4), Ch6 Military & Politics, With Real and Fake	
15	103/12/22 ~ 103/12/28	Ch6 Military & Politics, With Real and Fake	
16	103/12/29 ~ 104/01/04	Ch6 Team Report, Discussion (5), Ch7 Innovation & Management of Technology	
17	104/01/05 ~ 104/01/11	Ch7 Innovation & Management of Technology	
18	104/01/12 ~ 104/01/18	Final Exam Week	
Requirement	1.出席率以點名系統為準。(Attendance rate will be based on information in school attendance system. 2.平時評量為「小組報告與討論」。(In-class evealuation means group project and discussion) 3.授課進度得視實際情況調整。(Teaching schedule could be adjusted according to real teaching progress.) 4.期末得視學習情形、出席狀況，調整學期分數。(Final grade will be adjusted according to learning attitude and attendance in the final period of time.) 5.各類報告及應繳交資料之期程與格式請參閱教學大綱Syllabus。(All reports and materials which are scheduled to submit, and their formats can be seen in the syllabus.) 6.期中、期末考試及報告未到且未請假獲准者，或有其他行為不當（如課間喧嘩屢勸不聽、考試繳白卷者），本科不予及格。(Any missed exams (midterm and final) or reports without permission, or misdemeanor in classes could lead to fail in the course.)		

Teaching Facility	Computer, Projector
Textbook(s)	Tomorrow's Technology and You, George Beekman / Michael J. Quinn
Reference(s)	
Number of Assignment(s)	(Filled in by assignment instructor only)
Grading Policy	◆ Attendance： 20.0 ％ ◆ Mark of Usual： ％ ◆ Midterm Exam： 20.0 ％ ◆ Final Exam： 30.0 ％ ◆ Other〈team report〉：30.0 ％
Note	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 . ※ **Unauthorized photocopying is illegal. Using original textbooks is advised. It is a crime to improperly photocopy others' publications.**