

## Tamkang University Academic Year 105, 1st Semester Course Syllabus

Course Title	GLOBAL TECHNOLOGY REVOLUTION	Instructor	LIN IN-HO
Course Class	TGVZB0B , 0B	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	This course presents the results from a set of foresights into global technology trends and their implications for the world in the future. Areas of particular importance include biotechnology, nanotechnology, materials technology, and information and communication technologies. Through the design of this course, students will understand recent and future development of modern science and technology and its impact on human society and global world, students will also be familiar with broadly-based fundamental of the development of technology for full aspects, management, and application.		

## 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-Characterizing, 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	ABC
2	Understand the trend of globalization.	C5	ABC
3	Enhance the knowledge of management.	P4	ABC
4	Improve the capability of expression.	A5	ABC

### 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	105/09/12 ~ 105/09/18	Syllabus and Instruction · Preliminary, the Introduction of GTR	

2	105/09/19 ~ 105/09/25	ICT Technology Trends : Hardware trends (I)	
3	105/09/26 ~ 105/10/02	ICT Technology Trends : Hardware trends (2), Software trends (I)	HW.#1
4	105/10/03 ~ 105/10/09	ICT Technology Trends : Software trends (2)	
5	105/10/10 ~ 105/10/16	Team Report, and Discussion , Quiz 1	HW.#2
6	105/10/17 ~ 105/10/23	Team Report, and Discussion	
7	105/10/24 ~ 105/10/30	ICT Technology Trends : Data trends	HW.#3
8	105/10/31 ~ 105/11/06	ICT Technology Trends : Communication trends (I), Quiz 2	
9	105/11/07 ~ 105/11/13	ICT Technology Trends : Communication trends (2)	
10	105/11/14 ~ 105/11/20	Midterm Exam Week	
11	105/11/21 ~ 105/11/27	Biology Technology	HW.#4
12	105/11/28 ~ 105/12/04	Entertainment, Between Virtual and Reality	
13	105/12/05 ~ 105/12/11	eCommerece	HW.#5
14	105/12/12 ~ 105/12/18	Team Report, and Discussion, Quiz 3	
15	105/12/19 ~ 105/12/25	Team Report, and Discussion	
16	105/12/26 ~ 106/01/01	Innovation & Management of Technology (1), Quiz 4	HW.#6
17	106/01/02 ~ 106/01/08	Innovation & Management of Technology (2)	
18	106/01/09 ~ 106/01/15	Final Exam Week	
Requirement	<p>1.If a student's class absence reaches one-third of the total hours(in a semester) for a particular course, the course instructor will notify the Office of Academic Affairs, and the student will not be allowed to take part in the remaining course examinations and will be receive a semester grade(for that course) of zero.</p> <p>2.Number of quizzes : 4</p>		
Teaching Facility	Computer, Projector		
Textbook(s)			
Reference(s)	<p>Tomorrow' s Technology and You, George Beekman / Michael J. Quinn</p> <p><a href="http://moodle.learning.tku.edu.tw">http://moodle.learning.tku.edu.tw</a></p>		

Number of Assignment(s)	<b>6</b> (Filled in by assignment instructor only)
Grading Policy	<p>◆ Attendance : 10.0 %    ◆ Mark of Usual : 30.0 %    ◆ Midterm Exam : 15.0 %</p> <p>◆ Final Exam : 15.0 %</p> <p>◆ Other 〈Team Project report〉 : 30.0 %</p>
Note	<p>This syllabus may be uploaded at the website of Course Syllabus Management System at <a href="http://info.ais.tku.edu.tw/csp">http://info.ais.tku.edu.tw/csp</a> or through the link of Course Syllabus Upload posted on the home page of TKU Office of Academic Affairs at <a href="http://www.acad.tku.edu.tw/CS/main.php">http://www.acad.tku.edu.tw/CS/main.php</a>.</p> <p><b>※ Unauthorized photocopying is illegal. Using original textbooks is advised. It is a crime to improperly photocopy others' publications.</b></p>