

Tamkang University Academic Year 102, 2nd Semester Course Syllabus

Course Title	DATA PROCESSING	Instructor	LIN IN-HO
Course Class	TPGXB1A DEPARTMENT OF GLOBAL POLITICAL ECONOMY, 1A	Details	<ul style="list-style-type: none"> ◆ Required ◆ One Semester ◆ 2 Credits
Academic Aim of Education			
<p>This is an introductory course of computer science. After completing this course, students should develop computer ethics, fundamental knowledge and ability to use computers efficiently and to meet the global information technology trends.</p>			
Schoolwide essential virtues			
<ul style="list-style-type: none"> 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	<p>This course provides an introductory survey of computer science and information communication technologies (ICT). We aim students how to use ICT to master their current study or future jobs and to help ensure the success of their organization.</p> <p>Course materials in this semester include computer software applications, Networking and Communications, Internet services, Managing a database, mobile computing applications, Enterprise Computing, Computer Security and Intellectual Property Rights.</p>		

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	To understand the framework and operations of information communication technologies	C2	ABG
2	To understand the applications and service model of ICT	C3	BCEG
3	To understand how to use mobile devices and computing technology on their study and future jobs	P3	CD
4	To understand how security services prevent computers from attacks and understand what is intellectual property right.	A6	FGH

Teaching Objectives, Teaching Methods and Assessment

No.	Teaching Objectives	Teaching Methods	Assessment
1	To understand the framework and operations of information communication technologies	Lecture, Discussion, Practicum	Practicum, Participation, Lab.
2	To understand the applications and service model of ICT	Lecture, Discussion, Practicum	Practicum, Report, Participation
3	To understand how to use mobile devices and computing technology on their study and future jobs	Discussion, Practicum	Practicum, Report, Participation
4	To understand how security services prevent computers from attacks and understand what is intellectual property right.	Discussion, Practicum, Problem solving	Report, Participation

Course Schedule			
Week	Date	Subject/Topics	Note
1	103/02/17 ~ 103/02/23	Introduction to ICT infrastructure. Lab.: Compose a team with 4~6 members	Applying Google Account
2	103/02/24 ~ 103/03/02	Introduction to cloud computing Lab.: introduction to Google Cloud App. Engine	
3	103/03/03 ~ 103/03/09	Networks and Communications (1) , Lab. 1: (Excel Functions)	
4	103/03/10 ~ 103/03/16	Networks and Communications (2) , Lab. 2: (Excel Functions)	
5	103/03/17 ~ 103/03/23	Cloud Computing, Internet and Web Services (1) Lab.3	
6	103/03/24 ~ 103/03/30	Cloud Computing, Internet and Web Services (2) Lab.4	
7	103/03/31 ~ 103/04/06	教學行政觀摩日	
8	103/04/07 ~ 103/04/13	Quiz_1	
9	103/04/14 ~ 103/04/20	Managing a Database (1), Lab.5 (Excel Functions)	
10	103/04/21 ~ 103/04/27	Midterm Exam Week	
11	103/04/28 ~ 103/05/04	Managing a Database (2), Lab.6 (Excel Functions)	
12	103/05/05 ~ 103/05/11	Managing Computing Securely, Safely, and Ethically, Lab. 7	
13	103/05/12 ~ 103/05/18	Exploring Information System Development, Lab. 8	
14	103/05/19 ~ 103/05/25	Quiz_2	
15	103/05/26 ~ 103/06/01	Computer Programs and Programming Languages, Enterprise Computing, Lab.9	
16	103/06/02 ~ 103/06/08	Final Project Report(1)	
17	103/06/09 ~ 103/06/15	Final Project Report(2)	
18	103/06/16 ~ 103/06/22	Final Exam Week	
Requirement	register to web site: http://moodle.learning.tku.edu.tw		

Teaching Facility	Computer, Projector
Textbook(s)	1、 Discovering Computers, Complete: Your Interactive Guide to the Digital World by Gary Shelly) 2、 Discovering Computers:A gateway to information (Shelly) 代理商：東華書局
Reference(s)	Computers Information Technology in Perspective (Larry Long) 代理商：全華書局
Number of Assignment(s)	4 (Filled in by assignment instructor only)
Grading Policy	◆ Attendance : 10.0 % ◆ Mark of Usual : 20.0 % ◆ Midterm Exam : 25.0 % ◆ Final Exam : 25.0 % ◆ Other (Project & Homework) : 20.0 %
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.