Tamkang University Academic Year 102, 1st Semester Course Syllabus

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Course Title	INTRODUCTION TO COMPUTER SCIENCE	Instructor	FU-YI HUNG
Course Class	TPIBB1A DIVISION OF COMMUNICATION TECHNOLOGY, DEPARTMENT OF INNOVATIVE INFORMATION AND TECHNOLOGY, 1A	Details	◆ Required◆ One Semester◆ 2 Credits
	Academic teaching object	tives	
should deve	roductory course of computer science. After completing this co lop computer ethics, fundamental knowledge and ability to use nd to meet the global information technology trends.		
	Schoolwide essential vii	rtues	
 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. 			
This course provides an introductory survey of computer science. Progress of this course follows a bottom-up arrangement of subjects that proceeds from the concrete to the abstract. Course materials in this semester includes Number Systems, Computer Organization, Computer Networks, Operating Systems, and Intellectual Property Rights.			

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

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.)

	Teaching Objectives		Relevance	
No.			Schoolwide essential virtues	
1	To understand how data are represented and manipulated in a computer	C3	BCEG	
2	To understand how operating systems coordinate a computer's internal activities	C3	BCEG	
3	To understand how computers constitute networks and share information	C3	BCEG	
4	To understand what are intellectual property rights and their applications	C3	BCEG	

Teaching Objectives, Teaching Methods and Assessment

No.	Teaching Objectives	Teaching Methods	Assessment
1	To understand how data are represented and manipulated in a computer	Lecture	Written test, Report
2	To understand how operating systems coordinate a computer's internal activities	Lecture	Written test, Report
3	To understand how computers constitute networks and share information	Lecture	Written test, Report

4	4 To understand what are intellectual		Lecture	Written test, Report
	property rights and their			
	applications			
			Course Schedule	
Wee	Date	Sub	ject/Topics	Note
1	102/09/16 ~	Introduction		
2	102/09/23 ~ 102/09/29	Intellectual property		
3	102/09/30 ~ 102/10/06	Number Systems		
4	102/10/07 ~ 102/10/13	Number Systems		
5	102/10/14 ~ 102/10/20	Number Systems		
6	102/10/21 ~ 102/10/27	Computer Organization		
7	102/10/28 ~ 102/11/03	Computer Organization		
8	102/11/04 ~ 102/11/10	Computer Organization		
9	102/11/11 ~ 102/11/17	Computer Organization		
10	102/11/18 ~ 102/11/24	Midterm Exam Week		
11	102/11/25 ~ 102/12/01	Computer Networks		
12	102/12/02 ~ 102/12/08	Computer Networks		
13	102/12/09 ~ 102/12/15	Computer Networks		
14	102/12/16 ~ 102/12/22	Computer Networks		
15	102/12/23 ~ 102/12/29	Computer Networks		
16	102/12/30 ~ 103/01/05	Operating Systems		
17	103/01/06 ~ 103/01/12	Operating Systems		
18	103/01/13 ~ 103/01/19	Final Exam Week		
R	equirement			

Teaching Facility	Computer, Projector	
Textbook(s)	Foundations of Computer Science, by Behrouz Forouzan and Firouz Mosharraf, Cengage Learning, 2nd Edition, 2007	
Reference(s)	計算機概論, B. Forouzan and F. Mosharraf 著, 林仁勇等譯, 學銘圖書 - 歐亞書 局, 第二版, 2008 Computer Science Illuminated, by Nell Dale and John Lewis, Jones and Bartlett Publishers, Inc., 5th Edition, 2012	
Number of Assignment(s)	(Filled in by assignment instructor only)	
Grading Policy	 ◆ Attendance: % ◆ Mark of Usual: % ◆ Midterm Exam: 30.0 % ◆ Final Exam: 30.0 % ◆ Other 〈Reports, Presentation〉: 40.0 % 	
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.	

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