Tamkang University Academic Year 102, 2nd Semester Course Syllabus

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Course Title	DATA PROCESSING	Instructor	FU-YI HUNG
Course Class	TPIBB1A DIVISION OF COMMUNICATION TECHNOLOGY, DEPARTMENT OF INNOVATIVE INFORMATION AND TECHNOLOGY, 1A	Details	RequiredOne Semester2 Credits
	Academic Aim of Educat	ion	
should deve	croductory course of computer science. After completing this co slop computer ethics, fundamental knowledge and ability to use and to meet the global information technology trends.		
	Schoolwide essential vi	rtues	
B. Information C. A vision D. Moral in E. Indepen F. A cheerf G. A spirit of	perspective. tion literacy. for the future. tegrity. dent thinking. ful attitude and healthy lifestyle. of teamwork and dedication. of aesthetic appreciation.		
Course Introduction	This course provides an introductory survey of computer scie course follows a bottom-up arrangement of subjects that proceed to the abstract. Course materials in this semester in property, data storage, operations on data, logic gates and Ecombinational logic analysis.	oceeds from th cludes intellec	ne tual

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 A1-Receiving, A2-Responding, A3-Valuing,

(iii) Affective Domain : Al-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 and implement the fundamental of intellectual property	C3	BDEG	
2	To understand how data are represented and manipulated in a computer	C3	BEG	
3	To analyze and implement the fundamental properties of logic gates and Boolean algebra	C3	BEG	
4	To analyze and implement the combinational circuits	C4	BEG	

Teaching Objectives, Teaching Methods and Assessment

No.	Teaching Objectives	Teaching Methods	Assessment
1	To understand and implement the fundamental of intellectual property	Lecture	Written test, Report, Participation
2	To understand how data are represented and manipulated in a computer	Lecture	Written test, Report, Participation
3	To analyze and implement the fundamental properties of logic gates and Boolean algebra	Lecture	Written test, Report, Participation
4	To analyze and implement the combinational circuits	Lecture	Written test, Report, Participation

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/eek	Date	Subject/Topics	Note
1	103/02/17 ~ 103/02/23	Intellectual Property	
2	103/02/24 ~ 103/03/02	Intellectual Property	
3	103/03/03 ~ 103/03/09	Data Storage	
4	103/03/10 ~ 103/03/16	Data Storage	
5	103/03/17 ~ 103/03/23	Data Storage	
6	103/03/24 ~ 103/03/30	Operations on Data	
7	103/03/31 ~ 103/04/06	Operations on Data	
8	103/04/07 ~ 103/04/13	Logic Gates	
9	103/04/14 ~ 103/04/20	Logic Gates	
10	103/04/21 ~ 103/04/27	Midterm Exam Week	
11	103/04/28 ~ 103/05/04	Boolean Algebra and Logic Simplification	
12	103/05/05 ~ 103/05/11	Boolean Algebra and Logic Simplification	
13	103/05/12 ~ 103/05/18	Boolean Algebra and Logic Simplification	
14	103/05/19 ~ 103/05/25	Combinational Logic Analysis	
15	103/05/26 ~ 103/06/01	Combinational Logic Analysis	
16	103/06/02 ~ 103/06/08	Function of Combinational Logic	
17	103/06/09 ~ 103/06/15	Function of Combinational Logic	
18	103/06/16 ~ 103/06/22	Final Exam Week	
Red	quirement	考試舞弊者學期成績為零分‧並且依照校規懲處。	
Teaching Facility		Computer, Projector	
Textbook(s)		Digital Fundamentals, by Thomas L. Floyd, Prentice Hall, 10th Edition, 2 Foundations of Computer Science, by Behrouz Forouzan and Firouz Mo Learning, 2nd Edition, 2007	

Reference(s)	Digital Design, by M. Morris Mano and Michael D. Ciletti, Prentice Hall, 5th Edition, 2012 Fundamentals of Logic Design, by Jr. Charles H. Roth and Larry L Kinney, CL Engineering, 6th Edition, 2010 計算機概論, B. Forouzan and F. Mosharraf 著, 林仁勇譯, 學銘圖書 - 歐亞書局, 第二版, 2008 數位邏輯設計, Thomas L. Floyd 著, 劉倫偉譯, 高立圖書, 2009	
Number of Assignment(s)	(Filled in by assignment instructor only)	
Grading Policy	 Attendance: %	
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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