## Tamkang University Academic Year 103, 2nd Semester Course Syllabus

Course Title	DATA PROCESSING	Instructor	FU-YI HUNG
Course Class	TQIAB1A  DIVISION OF SOFTWARE ENGINEERING,  DEPARTMENT OF INNOVATIVE INFORMATION	Details	<ul><li>Required</li><li>One Semester</li><li>2 Credits</li></ul>
	AND TECHNOLOGY, 1A  Academic Aim of Educa	ation	
should deve	croductory course of computer science. After completing this elop computer ethics, fundamental knowledge and ability to and to meet the global information technology trends.		:
	Schoolwide essential v	irtues	
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 scourse follows a bottom-up arrangement of subjects that concrete to the abstract. Course materials in this semester property, data storage, operations on data, logic gates an combinational logic analysis.	proceeds from the includes 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	ABCE	
2	To understand how data are represented and manipulated in a computer	C3	ABCE	
3	To analyze and implement the fundamental properties of logic gates and Boolean algebra	C3	ABCE	
4	To analyze and implement the combinational circuits	C4	ABCE	

## Teaching Objectives, Teaching Methods and Assessment

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

/eek	Date	Subject/Topics	Note
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1	104/02/24 ~ 104/03/01	Intellectual Property	
2	104/03/02 ~ 104/03/08	Intellectual Property	
3	104/03/09 ~ 104/03/15	Data Storage	
4	104/03/16 ~ 104/03/22	Data Storage	
5	104/03/23 ~ 104/03/29	Data Storage	
6	104/03/30 ~ 104/04/05	Operations on Data	
7	104/04/06 ~ 104/04/12	Operations on Data	
8	104/04/13 ~ 104/04/19	Logic Gates	
9	104/04/20 ~ 104/04/26	Logic Gates	
10	104/04/27 ~ 104/05/03	Midterm Exam Week	
11	104/05/04 ~ 104/05/10	Boolean Algebra and Logic Simplification	
12	104/05/11 ~ 104/05/17	Boolean Algebra and Logic Simplification	
13	104/05/18 ~ 104/05/24	Boolean Algebra and Logic Simplification	
14	104/05/25 ~ 104/05/31	Combinational Logic Analysis	
15	104/06/01 ~ 104/06/07	Combinational Logic Analysis	
16	104/06/08 ~	Function of Combinational Logic	
17	104/06/15 ~ 104/06/21	Function of Combinational Logic	
18	104/06/22 ~ 104/06/28	Final Exam Week	
Re	quirement	Cheating or plagiarism will result in a failing grade in the course. 作弊或抄襲者學期成績為零分.並且依照校規懲處。	
Teaching Facility Comp		Computer, Projector	
Textbook(s)		Digital Fundamentals, by Thomas L. Floyd, Prentice Hall, 10th Edition, 20 Foundations of Computer Science, by Behrouz Forouzan and Firouz Mos Learning, 2nd Edition, 2007	

Note	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 <a href="http://www.acad.tku.edu.tw/CS/main.php">http://www.acad.tku.edu.tw/CS/main.php</a> .	
Grading Policy	<ul> <li>♦ Final Exam: 30.0 %</li> <li>♦ Other 〈Lab Exercises〉: 20.0 %</li> <li>This syllabus may be uploaded at the website of Course Syllabus Management System at</li> </ul>	
Number of Assignment(s)	(Filled in by assignment instructor only)  ◆ Attendance: % ◆ Mark of Usual: 20.0 % ◆ Midterm Exam: 30.0 %	
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	

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