Tamkang University Academic Year 103, 2nd Semester Course Syllabus

| Course Title | DATA PROCESSING | Instructor | FU-YI HUNG |
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| Course Class | TQIAB1A <br> DIVISION OF SOFTWARE ENGINEERING, <br> DEPARTMENT OF INNOVATIVE INFORMATION | Details | - Required <br> - One Semester <br> - 2 Credits |
|  | Academic Aim of | on |  |
| 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. |  |  |  |
| School wide essential virtues |  |  |  |
| A. A global perspective. <br> B. Information literacy. <br> C. A vision for the future. <br> D. Moral integrity. <br> E. Independent thinking. <br> F. A cheerful attitude and healthy lifestyle. <br> G. A spirit of teamwork and dedication. <br> H. A sense of aesthetic appreciation. |  |  |  |
| $\left.\begin{array}{c\|l} & \begin{array}{l}\text { This course provides an introductory survey of computer science. Progress of this } \\ \text { course follows a bottom-up arrangement of subjects that proceeds from the }\end{array} \\ \text { concrete to the abstract. Course materials in this semester includes intellectual }\end{array}\right\}$Croperty, data storage, operations on data, logic gates and Boolean algebra, <br> Introductioncombinational logic analysis. |  |  |  |

The Relevance among Teaching Objectives, Objective Levels and Schoolwide essential virtue
I.Objective Levels (select applicable ones) :
(i) Cognitive Domain

C1-Remembering,
C4-Analyzing,
C2-Understanding,
C5-Evaluating, P1-Imitation, P2-Mechanism,
P4-Linked Operation, P5-Automation,
A1-Receiving, A2-Responding, A4-Organizing, A5-Charaterizing,

C3-Applying,
C6-Creating
P3-Independent Operation, P6-Origination
A3-Valuing, A6-Implement ing
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.)



| 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 <br> 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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| Number of Assignment（s） | （Filled in by assignment instructor only） |  |
| Grading Policy |  |  |
| 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 ． <br> ※ Unauthorized photocopying is illegal．Using original textbooks is advised．It is a crime to improperly photocopy others＇publications． |  |
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