Tamkang University Academic Year 108, 1st Semester Course Syllabus

Course Title	DATA STRUCTURE & PROCESSING	Instructor	WU, SHIH-JUNG			
Course Class	TQIDB2A DIVISION OF APPLIED INFORMATICS, DEPARTMENT OF INNOVATIVE INFORMATION	Details	General CourseRequiredOne Semester			
	AND TECHNOLOGY (ENGLISH-TAUGHT		L			
PROGRAM), 2A _{Departmental} Aim of Education						
Cultivate professional talents in developing and applying information system in various fields.						
Subject Departmental core competences						
A. Capability of computer program coding, process planning, and problem solving(ratio:100.00)						
Subject Schoolwide essential virtues						
2. Information literacy. (ratio:70.00)						
5 Indeper	ndent thinking. (ratio:20.00)					
3.11146961	tacht tillinding. (tatio.20.00)					
8. A sense	of aesthetic appreciation. (ratio:10.00)					
Course Introduction	This course focus on using c programming language to solve application and computer. It emphasizes data storage, fetch, and complexity evaluation.					

The correspondences between the course's instructional objectives and the cognitive, affective, and psychomotor objectives.

Differentiate the various objective methods among the cognitive, affective and psychomotor domains of the course's instructional objectives.

I. Cognitive: Emphasis upon the study of various kinds of knowledge in the cognition of the course's veracity, conception, procedures, outcomes, etc.

II. Affective: Emphasis upon the study of various kinds of knowledge in the course's appeal, morals, attitude, conviction, values, etc.

III.Psychomotor: Emphasis upon the study of the course's physical activity and technical manipulation.

	manipulation.							
No.	Teaching Objectives objective methods							
1	Understanding the basic concepts for data structure Cognitive							
2	Promoting programming ability. Cognitive							
3	To possess the ability for algorithms design and evaluation. Cognitive							
	The correspondences of teaching objectives: core competences, essential virtues, teaching methods, and assessment							
No.	Core Competences		Essential Virtues	Teaching Methods	Assessment			
1	А		258	Lecture	Testing			
2	А		258	Lecture	Testing			
3	А		258	Lecture	Testing			
	Course Schedule							
Week	Date	Course Contents Note			Note			
1	108/09/09 ~ 108/09/15	Structures						
2	108/09/16 ~ 108/09/22	Structures						
3	108/09/23 ~ 108/09/29	Pointers						
4	108/09/30 ~ 108/10/06	Linked Lists						
5	108/10/07 ~ 108/10/13	Linked Lists						
6	108/10/14 ~ 108/10/20	Stacks and Queues						
7	108/10/21 ~ 108/10/27	Stacks and Queues						
8	108/10/28 ~ 108/11/03	Introduction to Binary Trees						
9	108/11/04 ~ 108/11/10	Introduction to Binary Frees						

10	108/11/11 ~ 108/11/17	Midterm Exam Week			
11	108/11/18 ~ 108/11/24	Introduction to Binary Trees			
12	108/11/25 ~ 108/12/01	Sorting			
13	108/12/02 ~ 108/12/08	Sorting			
14	108/12/09 ~ 108/12/15	Graphs			
15	108/12/16~ 108/12/22	Graphs			
16	108/12/23 ~ 108/12/29	Hashing			
17	108/12/30 ~ 109/01/05	Hashing			
18	109/01/06 ~ 109/01/12	Final Exam Week (Date:109/1/3-109/1/9)			
Re	equirement	4 Tests needed.			
Teaching Facility		Computer			
Textbooks and Teaching Materials		Data Structures In C by Noel Kalicharan (Aug 11, 2008)			
References		Data Structures-related			
Number of Assignment(s)		6 (Filled in by assignment instructor only)			
Grading Policy		 ↑ Attendance: 10.0 %			
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			
TOIDB250651.0A		to improperly photocopy others' publications.			

TQIDB2E0651 0A Page:3/3 2019/11/20 12:55:30