## Tamkang University Academic Year 110, 1st Semester Course Syllabus

Course Title	DATA STRUCTURE & PROCESSING	Instructor	FENG-CHENG CHANG				
Course Class	DEPARTMENT OF COMPUTER SCIENCE AND  Details  • Required		<ul><li>◆ General Course</li><li>◆ Required</li><li>◆ One Semester</li></ul>				
Relevance to SDGs	INFORMATION ENGINEERING, 2P SDG4 Quality education						
	Departmental Aim of Educ	ation					
I. Compr	rehend professional knowledge.						
П. Acquir	e mastery of Practical Skills.						
Ⅲ. Establi	sh creative achievement.						
	Subject Departmental core competenc	es					
A. Program	nming and application ability.(ratio:100.00)						
	Subject Schoolwide essential virtues						
2. Informa	ntion literacy. (ratio:100.00)						
Course Introduction	This course focus on using C programming language to solv 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.			objective methods						
1	Understandir	ng the ba	Cognitive						
2	Promoting p	rogramm	Cognitive						
3	To possess th	ne ability	Cognitive						
	The correspondences of teaching objectives: core competences, essential virtues, teaching methods, and assessment								
No.	Core Competences		Essential Virtues	Teaching Methods	Assessment				
1	А		2	Lecture	Testing				
2	A		2	Lecture	Testing				
3	А		2	Lecture	Testing				
	Course Schedule								
Week	Date	Course Contents Note							
1	110/09/22 ~ 110/09/28	Structures							
2	110/09/29 ~ 110/10/05	Structures							
3	110/10/06 ~ 110/10/12	Pointers							
4	110/10/13 ~ 110/10/19	Linked Lists							
5	110/10/20 ~ 110/10/26	Linked Lists							
6	110/10/27 ~ 110/11/02	Stacks and Queues							
7	110/11/03 ~ 110/11/09	Stacks and Queues							
8	110/11/10 ~ 110/11/16	Introduction to Binary Trees							
9	110/11/17 ~ 110/11/23	Midterm Exam Week							

10	110/11/24 ~ 110/11/30	Introduction to Binary Trees				
11	110/12/01 ~ 110/12/07	Introduction to Binary Trees				
12	110/12/08 ~ 110/12/14	Sorting				
13	110/12/15 ~ 110/12/21	Sorting				
14	110/12/22 ~ 110/12/28	Graphs				
15	110/12/29 ~ 111/01/04	Graphs				
16	111/01/05 ~ 111/01/11	Hashing				
17	111/01/12 ~ 111/01/18	Final Evaluation				
18	111/01/19 ~ 111/01/25	Supplementary Topics				
Requirement		The assignments include homework and quizzes/exams. There is no make-up assignment if you miss it without a reason.				
Teaching Facility		Computer				
Textbooks and Teaching Materials		Data Structures In C by Noel Kalicharan (Aug 11, 2008)				
References		C/C++/Java related materials				
Number of Assignment(s)		6 (Filled in by assignment instructor only)				
Grading Policy		<ul> <li>◆ Attendance: % ◆ Mark of Usual: 50.0 % ◆ Midterm Exam: 20.0 %</li> <li>◆ Final Exam: 20.0 %</li> <li>◆ Other ⟨control points⟩: 10.0 %</li> </ul>				
	Note	This syllabus may be uploaded at the website of Course Syllabus Management System at <a href="http://info.ais.tku.edu.tw/csp">http://info.ais.tku.edu.tw/csp</a> 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> .  **Unauthorized photocopying is illegal. Using original textbooks is advised. It is a to improperly photocopy others' publications.	crime			

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