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

Course Title INTRODUCTION TO COMPUTER AND COMPUTATIONAL THINKING Instructor		FU-YI HUNG				
Course Class	TNUOB0F INFORMATION EDUCATION, 0F	Details	◆ General Course     ◆ Required     ◆ One Semester			
SDG4 Quality education Relevance to SDGs						
	Departmental Aim of Educ	ation				
I. Develo	pment of information literacy.					
П. Develo	pment of computer skills.					
Ⅲ. Buildin	g up information ethics.					
IV. Trainin	g of independent thinking.					
	Subject Schoolwide essential virtues					
2. Informa	tion literacy. (ratio:80.00)					
4. Moral ir	ntegrity. (ratio:20.00)					
Course Introduction	This course provides an introductory survey of computer scie course follows a bottom-up arrangement of subjects that proconcrete to the abstract. Course materials in this semester in Systems, Computer Organization, Computer Networks, Open Intellectual Property Rights.	oceeds from tl cludes Numbe	ne er			

## 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.

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No.	Teaching Ob		Teaching Ob	jectives	objective methods	
	To understand how data are represented and r			manipulated in a	Cognitive	
	To understan	Cognitive				
	To understan	Cognitive				
	To understand what are intellectual property rights and their Cognitive applications				Cognitive	
	The o	correspond	lences of teaching objectives	: core competences, essential virtues, teaching me	ethods, and assessment	
No.	Core Competences		Essential Virtues	Teaching Methods	Assessment	
1			24	Lecture	Testing	
2			24	Lecture	Testing	
3			24	Lecture	Testing	
4			24	Lecture	Testing	
		1		Course Schedule		
Week	Date	Course		rse Contents	Note	
1	110/09/22 ~ 110/09/28	Introduction				
2	110/09/29 ~ 110/10/05	Intellectual property				
3	110/10/06 ~ 110/10/12	Computer Programming - Number Systems				
4	110/10/13 ~ 110/10/19	Computer Programming - Number Systems				
5	110/10/20 ~ 110/10/26	Computer Programming - Data Storage				
6	110/10/27 ~ 110/11/02	Computer Programming - Data Storage				

7	110/11/03 ~ 110/11/09	Computer Programming - Data Storage		
8 110/11/10~ OI		Operations on Data		
9	110/11/17~ 110/11/23 Midterm Exam Week			
10	110/11/24 ~ 110/11/30	Operations on Data		
11	110/12/01 ~ 110/12/07	Computer Organization		
12 110/12/08 ~ 110/12/14		Computer Organization		
13 110/12/15 ~ 110/12/21		Computer Organization		
14   110/12/22 ~   110/12/28		Computer Networks		
15	110/12/29 ~ 111/01/04	Computer Networks		
16	111/01/05 ~ 111/01/11	Operating System		
17	111/01/12 ~ 111/01/18	Final Exam		
18	111/01/19 ~ 111/01/25			
Requirement		Cheating or plagiarism will receive a semester grade of zero for this course. 作弊或抄襲者學期總成績為零分。  If a student's class absence reaches one-third of the total class hours (in a semester) for a particular course, the course instructor will notify the Office of Academic Affairs, and the student will not be allowed to take part in the remaining course examinations and will receive a semester grade (for that course) of zero.  學生對某一科目之缺課總時數達該科全學期授課時數三分之一,經該科教師通知教務處時即不准參加該科目之考試,該科目學期成績以零分計算。		
Teaching Facility		Computer, Projector		
Textbooks and Teaching Materials		Foundations of Computer Science, by Behrouz Forouzan, Cengage Learning, 4rd Edition, 2018 Discovering Computers 2018: Digital Technology, Data, and Devices, by M. Vermaat, etc., 1st Edition, 2017		
References		計算機概論, B. Forouzan and F. Mosharraf 著, 林仁勇等譯, 歐亞書局, 第四版, 2018 Computer Science Illuminated, by Nell Dale and John Lewis, Jones and Bartlett Publishers, Inc., 7th Edition, 2019		
	lumber of signment(s)	10 (Filled in by assignment instructor only)		
Grading Policy		<ul> <li>◆ Attendance: 5.0 % ◆ Mark of Usual: 30.0 % ◆ Midter</li> <li>◆ Final Exam: 28.0 %</li> <li>◆ Other 〈Assignments〉: 10.0 %</li> </ul>	m Exam: 27.0 %	

	This syllabus may be uploaded at the website of Course Syllabus Management System at
Note	http://info.ais.tku.edu.tw/csp or through the link of Course Syllabus Upload posted on the
Note	home page of TKU Office of Academic Affairs at http://www.acad.tku.edu.tw/CS/main.php.
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