Tamkang University Academic Year 114, 2nd Semester Course Syllabus

Course Title	INTRODUCTION TO COMPUTER AND COMPUTATIONAL THINKING	Instructor	FU-YI HUNG
Course Class	TNUOB0A INFORMATION EDUCATION, 0A	Details	◆ General Course ◆ Required ◆ One Semester ◆ 2 Credits
Relevance to SDGs	SDG4 Quality education		

Departmental Aim of Education

Ⅰ. Development of information literacy.

Ⅱ. Development of computer skills.

Ⅲ. Building up information ethics.

Ⅳ. Training of independent thinking.

Subject Schoolwide essential virtues

1. A global perspective. (ratio:10.00)
2. Information literacy. (ratio:30.00)
3. A vision for the future. (ratio:10.00)
4. Moral integrity. (ratio:20.00)
5. Independent thinking. (ratio:10.00)
6. A cheerful attitude and healthy lifestyle. (ratio:5.00)
7. A spirit of teamwork and dedication. (ratio:10.00)
8. A sense of aesthetic appreciation. (ratio:5.00)

Course Introduction	This course provides an introductory survey of computer science. Progress of this course follows a bottom-up arrangement of subjects that proceeds from the concrete to the abstract. Course materials in this semester includes Hardware Basic, Software Basic, Networking and Internet, Computer Security and Intellectual Property Rights.

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.

No.	Teaching Objectives	objective methods
1	To understand how hardware units work in computers	Cognitive
2	To understand how system software coordinates computer's internal activities	Cognitive
3	To understand how computers constitute networks and share information	Cognitive
4	To understand how security services prevent computers from attacks and understand what is intellectual property rights	Cognitive

The correspondences of teaching objectives : core competences, essential virtues, teaching methods, and assessment

No.	Core Competences	Essential Virtues	Teaching Methods	Assessment
1		12345678	Lecture	Testing
2		12345678	Lecture	Testing
3		12345678	Lecture	Testing
4		12345678	Lecture	Testing

Course Schedule

Week	Date	Course Contents	Note

1	115/02/23 ~ 115/03/01	Introduction	
2	115/03/02 ~ 115/03/08	Computer Hardware	
3	115/03/09 ~ 115/03/15	Computer Hardware	
4	115/03/16 ~ 115/03/22	Software and Operating Systems	
5	115/03/23 ~ 115/03/29	The Web and Networking	
6	115/03/30 ~ 115/04/05	Computer Programming - Word Processoring	
7	115/04/06 ~ 115/04/12	Computer Programming - Word Processoring	
8	115/04/13 ~ 115/04/19	Computer Programming - Word Processoring	
9	115/04/20 ~ 115/04/26	Midterm Exam/Midterm Assessment Week (teachers can adjust the week as needed)	
10	115/04/27 ~ 115/05/03	Digital Media	
11	115/05/04 ~ 115/05/10	Security and Safety	
12	115/05/11 ~ 115/05/17	Artificial Intelligence	
13	115/05/18 ~ 115/05/24	Computer Programming - Spreadsheet	
14	115/05/25 ~ 115/05/31	Computer Programming - Spreadsheet	
15	115/06/01 ~ 115/06/07	Computer Programming - Spreadsheet	
16	115/06/08 ~ 115/06/14	Final Week of Diverse Assessments	
17	115/06/15 ~ 115/06/21	Final Week of Diverse Assessments/Flexible Teaching Week for Teachers	
18	115/06/22 ~ 115/06/28	Flexible Teaching Week for Teachers	

Key capabilities	Information Technology
Interdisciplinary	STEAM course (S:Science, T:Technology, E:Engineering, M:Math, A field:Integration of Art and Humanist)
Distinctive teaching	

Course Content	Computer programming or Computer language (students have hands-on experience in related projects)
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。
Textbooks and Teaching Materials	Using teaching materials from other writers:Textbooks Name of teaching materials: Technology for Success: Computer Concepts (Asia Edition), by Jennifer T. Campbell, Cengage Learning, 2020
References	MOS Study Guide for Microsoft Word Exam MO-100 MOS Study Guide for Microsoft Excel Exam MO-200
Grading Policy	◆ Attendance： % ◆ Mark of Usual：50.0 % ◆ Midterm Exam： 20.0 % ◆ Final Exam： 20.0 % ◆ Other〈ClassroomPerformance〉：10.0 %
Note	This syllabus may be uploaded at the website of Course Syllabus Management System at https://web2.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. ※"Adhere to the concept of intellectual property rights" and "Do not illegally photocopy, download, or distribute." Using original textbooks is advised. It is a crime to improperly photocopy others' publications.