Tamkang University Academic Year 110, 2nd Semester Course Syllabus

Course Title	INTRODUCTION TO COMPUTERS	Instructor	TENG YU KUANG
Course Class	TGVOB0A INFORMATION EDUCATION, 0A	Details	◆ General Course ◆ Required ◆ One Semester
Relevance to SDGs	SDG1 No poverty SDG2 Zero hunger SDG4 Quality education SDG9 Industry, Innovation, and Infrastructure		

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

2. Information literacy. (ratio:100.00)

Course Introduction	This course is a tour through the world of computing. We explore how computer work - what they do and how they do it, form bottom to top, inside and out. A computer system is a collection of many different elements, which combine to form a whole that is far more than the sum of its parts : Hardware, software, programming, web surfing...

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	Let the student to know the layers of computer system, the concept of abstraction and its relationship to computing, the changing role of the computer user.	Cognitive

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

No.	Core Competences	Essential Virtues	Teaching Methods	Assessment
1		2	Lecture, Discussion	Testing, Discussion(including classroom and online), Report(including oral and written)

Course Schedule

Week	Date	Course Contents	Note
1	111/02/21 ~ 111/02/25	The big picture	
2	111/02/28 ~ 111/03/04	Binary Values and number system	
3	111/03/07 ~ 111/03/11	Data Representation	
4	111/03/14 ~ 111/03/18	gates and circuits	
5	111/03/21 ~ 111/03/25	computing component	
6	111/03/28 ~ 111/04/01	low-level programming language and pseudocode	
7	111/04/04 ~ 111/04/08	problem solving and Algorithm	
8	111/04/11 ~ 111/04/15	abstract data types and subprogram	
9	111/04/18 ~ 111/04/22	Object-Oriented design and high-level programming language	
10	111/04/25 ~ 111/04/29	Midterm Exam Week	

11	111/05/02 ~ 111/05/06	Operating system	
12	111/05/09 ~ 111/05/13	File system and directories	
13	111/05/16 ~ 111/05/20	Information system	
14	111/05/23 ~ 111/05/27	Artificial Inteligence	
15	111/05/30 ~ 111/06/03	Simulation, Graphics, Gaming	
16	111/06/06 ~ 111/06/10	Nerwork	
17	111/06/13 ~ 111/06/17	Computer Security	
18	111/06/20 ~ 111/06/24	Final Exam Week	

Requirement	
Teaching Facility	Computer, Projector
Textbooks and Teaching Materials	Computer Science Illuminated, 7th edition, Dale Lewis
References	
Number of Assignment(s)	(Filled in by assignment instructor only)
Grading Policy	◆ Attendance： 10.0 % ◆ Mark of Usual：20.0 % ◆ Midterm Exam： 30.0 % ◆ Final Exam： 40.0 % ◆ Other〈 〉： %
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 to improperly photocopy others' publications.**