Tamkang University Academic Year 111, 2nd Semester Course Syllabus

Course Title	INTRODUCTION TO COMPUTERS	Instructor	YIN LIANG
Course Class	TLFBB1A DIVISION OF GLOBAL COMMERCE, DEPARTMENT OF INTERNATIONAL BUSINESS (ENGLISH-TAUGHT PROGRAM), 1A	Details	◆ General Course ◆ Required ◆ 2nd Semester
Relevance to SDGs	SDG4 Quality education SDG5 Gender equality SDG9 Industry, Innovation, and Infrastructure		

Departmental Aim of Education

Ⅰ. Acquisition of professional knowledge.

Ⅱ. Learning effective self-planning.

Ⅲ. Theoretical application of practical matters.

Ⅳ. Interpersonal communication and teamwork.

Ⅴ. Analysis of problems and recommendations.

Ⅵ. Awareness of Ethics as a global citizen.

Subject Departmental core competences

A. Students can demonstrate that they have program basic knowledge of business and management.(ratio:10.00)

B. Students can demonstrate that they have capability in professional knowledge expression. (ratio:10.00)

C. Students can demonstrate that they have capability in using information technology. (ratio:70.00)

D. Students can demonstrate that they are critical thinkers.(ratio:10.00)

Subject Schoolwide essential virtues

1. A global perspective. (ratio:10.00)

2. Information literacy. (ratio:30.00)

3. A vision for the future. (ratio:5.00)

4. Moral integrity. (ratio:15.00)

5. Independent thinking. (ratio:25.00)

6. A cheerful attitude and healthy lifestyle. (ratio:5.00)

7. A spirit of teamwork and dedication. (ratio:5.00)

8. A sense of aesthetic appreciation. (ratio:5.00)

Course Introduction	This course is designed for first grade college students to acquire entry knowledge about information technologies. The programming language Python is introduced and used in this semester. The students can go further in programming upon completion of this course, and will be able to apply the learnt skills at work later.

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	Conforming the professional features of each colleges and departments	Cognitive
2	Development of information literacy	Cognitive
3	Establishing the concepts of information ethics	Affective
4	Development of the computer skills	Psychomotor
5	Enable students with the capabilities to adapt to the challenges form the growing information technologies impact	Affective

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

No.	Core Competences	Essential Virtues	Teaching Methods	Assessment
1	C	23	Lecture, Discussion	Study Assignments, Activity Participation
2	ABCD	25678	Lecture	Discussion(including classroom and online)
3	D	4	Lecture	Discussion(including classroom and online)

| 4 | C | 23 | Practicum | Study Assignments, Report(including oral and written) |
| 5 | A | 13 | Lecture | Practicum |

Course Schedule

Week	Date	Course Contents	Note
1	112/02/13 ~ 112/02/19	Install python and briefly introduce its features	
2	112/02/20 ~ 112/02/26	Data types and printout functions	
3	112/02/27 ~ 112/03/05	Constants and variables	
4	112/03/06 ~ 112/03/12	Expression	
5	112/03/13 ~ 112/03/19	Flow control: if-else statement	
6	112/03/20 ~ 112/03/26	Flow control: for-loop	
7	112/03/27 ~ 112/04/02	Self-defined functions	
8	112/04/03 ~ 112/04/09	Array and tuple	
9	112/04/10 ~ 112/04/16	Strings	
10	112/04/17 ~ 112/04/23	Midterm Exam Week	
11	112/04/24 ~ 112/04/30	Dictionary	
12	112/05/01 ~ 112/05/07	Set	
13	112/05/08 ~ 112/05/14	Files and exception handling	
14	112/05/15 ~ 112/05/21	Function and libraries	
15	112/05/22 ~ 112/05/28	Database	
16	112/05/29 ~ 112/06/04	Plot	
17	112/06/05 ~ 112/06/11	Excel and pandas	
18	112/06/12 ~ 112/06/18	Final Exam Week	

Requirement	

Teaching Facility	Computer
Textbooks and Teaching Materials	Python Programming PPT by MI TKU
References	Supercharged Python, Brian Overland, John Bennett
Number of Assignment(s)	**11** (Filled in by assignment instructor only)
Grading Policy	◆ Attendance： % ◆ Mark of Usual： % (Information Proficiency Test Included) ◆ Midterm Exam： 30.0 % ◆ Final Exam： 35.0 % ◆ Other〈作業〉：35.0 %
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 to improperly photocopy others' publications.**