Tamkang University Academic Year 108, 1st Semester Course Syllabus

Course Title	LANGUAGE STRUCTURES		Instructor	HUANG-WEN HUANG
Course Class	TQICB2A DIVISION OF SOFTWARE ENGINEERING, DEPARTMENT OF INNOVATIVE INFORMATION AND TECHNOLOGY (ENGLISH-TAUGHT PROGRAM), 2A		Details	◆ General Course ◆ Selective ◆ One Semester

Departmental Aim of Education

Cultivate professional talents in developing and applying information system in various fields.

Subject Departmental core competences

A. Capability of computer program coding, process planning, and problem solving(ratio:100.00)

Subject Schoolwide essential virtues

2. Information literacy. (ratio:70.00)

5. Independent thinking. (ratio:10.00)

7. A spirit of teamwork and dedication. (ratio:10.00)

8. A sense of aesthetic appreciation. (ratio:10.00)

Course Introduction	This course will teach the students to be familiar with the concepts of programming languages. It will enable the students, increased capacity to express ideas, improved background for choosing appropriate languages, increased ability to learn new languages, better understanding of the significance of implementation and overall advancement of computing.

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 introduce the concepts of computer programming languages and major evolution of computer programming languages.	Cognitive
2	To introduce syntax and semantics of computer programming languages.	Cognitive
3	To introduce technical terms in computer programming languages, such as variable name, binding, type checking and scope.	Psychomotor
4	To introduce technical terms in computer programming languages, such as variable name, binding, type checking and scope.	Cognitive

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

No.	Core Competences	Essential Virtues	Teaching Methods	Assessment
1	A	2	Lecture	Discussion(including classroom and online)
2	A	27	Lecture	Discussion(including classroom and online)
3	A	2	Lecture, Discussion	Study Assignments, Report(including oral and written), Activity Participation
4	A	2	Lecture	Testing

Course Schedule

Week	Date	Course Contents	Note
1	108/09/09 ~ 108/09/15	Preliminaries	
2	108/09/16 ~ 108/09/22	Evolution of the Major Programming Languages	
3	108/09/23 ~ 108/09/29	Describing Syntax	
4	108/09/30 ~ 108/10/06	Describing Semantics	

5	108/10/07 ~ 108/10/13	Lexical Analysis	
6	108/10/14 ~ 108/10/20	Parse Tree	
7	108/10/21 ~ 108/10/27	Syntax Analysis	
8	108/10/28 ~ 108/11/03	Names, Bindings	
9	108/11/04 ~ 108/11/10		
10	108/11/11 ~ 108/11/17	Midterm Exam Week	
11	108/11/18 ~ 108/11/24	Data Types	
12	108/11/25 ~ 108/12/01	Data Types	
13	108/12/02 ~ 108/12/08	Expressions Statement	
14	108/12/09 ~ 108/12/15	Assignment Statement	
15	108/12/16 ~ 108/12/22	Statement-Level Control Structures	
16	108/12/23 ~ 108/12/29	Subprograms 1	
17	108/12/30 ~ 109/01/05	Matlab programming language or project report	
18	109/01/06 ~ 109/01/12	Final Exam Week (Date:109/1/3-109/1/9)	

Requirement	1. The above grading policy may be changed during actual teaching circumstances to reflect teaching needs. 2. 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. 依本校學則第三十八條第二款規定辦理扣考
Teaching Facility	Computer, Projector
Textbooks and Teaching Materials	Concepts of Programming Languages, by Robert W. Sebesta 7th edition
References	
Number of Assignment(s)	**3**　(Filled in by assignment instructor only)
Grading Policy	◆ Attendance：　10.0 ％　◆ Mark of Usual：20.0 ％　◆ Midterm Exam：25.0 ％ ◆ Final Exam：　25.0 ％ ◆ Other〈Report〉：20.0 ％

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 .
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