Tamkang University Academic Year 106, 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	Details	SelectiveOne Semester3 Credits
	PROGRAM), ^{2A} Departmental Aim of Edu	cation	
Cultivate pro	ofessional talents in developing and applying information syst	em in various fi	elds.
	Departmental core compe	tences	
A. Capabili	cy of computer program coding, process planning, and proble	m solving	
B. Capabili	ty of applying basic mathematics and information technology	related mathen	natics
C. Capabili system	ty of applying knowledge of internet structure and protocol in	communicatio	١
D. Capabili	ty of developing information system		
E. Capabili	ry of integrating information system		
Course Introduction	This course will teach the students to be familiar with the confidence programming languages. It will enable the students, increase ideas, improved background for choosing appropriate lange to learn new languages, better understanding of the significant implementation and overall advancement of computing.	sed capacity to uages, increase	•

The Relevance among Teaching Objectives, Objective Levels and Departmental core competences

I.Objective Levels (select applicable ones):

(i) Cognitive Domain : C1-Remembering, C2-Understanding, C3-Applying, C4-Analyzing, C5-Evaluating, C6-Creating

(ii) Psychomotor Domain: P1-Imitation, P2-Mechanism, P3-Independent Operation,

P4-Linked Operation, P5-Automation, P6-Origination

(iii) Affective Domain : A1-Receiving, A2-Responding, A3-Valuing, A4-Organizing, A5-Charaterizing, A6-Implementing

II.The Relevance among Teaching Objectives, Objective Levels and Departmental core competences:

- (i) Determine the objective level(s) in any one of the three learning domains (cognitive, psychomotor, and affective) corresponding to the teaching objective. Each objective should correspond to the objective level(s) of ONLY ONE of the three domains.
- (ii) If more than one objective levels are applicable for each learning domain, select the highest one only. (For example, if the objective levels for Cognitive Domain include C3,C5, and C6, select C6 only and fill it in the boxes below. The same rule applies to Psychomotor Domain and Affective Domain.)
- (iii) Determine the Departmental core competences that correspond to each teaching objective. Each objective may correspond to one or more Departmental core competences at a time. (For example, if one objective corresponds to three Departmental core competences: A,AD, and BEF, list all of the three in the box.)

	Teaching Objectives		Relevance	
No.			Departmental core competences	
1	To introduce the concepts of computer programming languages and major evolution of computer programming languages.	C2	А	
2	To introduce syntax and semantics of computer programming languages.	C2	А	
3	To introduce technical terms in computer programming languages, such as variable name, binding, type checking and scope.	P3	А	
4	To introduce technical terms in computer programming languages, such as variable name, binding, type checking and scope.	C4	А	

Teaching Objectives, Teaching Methods and Assessment

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No.	Teaching Objectives	Teaching Methods	Assessment
1	To introduce the concepts of computer programming languages and major evolution of computer programming languages.	Lecture, Discussion	Written test, Report
2	To introduce syntax and semantics of computer programming languages.	Lecture	Written test
3	To introduce technical terms in computer programming languages, such as variable name, binding, type checking and scope.	Lecture, Discussion, Practicum	Written test

:	computer pr	technical terms in ogramming languages, ble name, binding, type d scope.	Lecture	Written test
	Т	his course has been designed to	cultivate the following essential qualities	in TKU students
	Essential (Qualities of TKU Students	Description	
		pective	Helping students develop a broader perspective from which to understand international affairs and global development.	
\Diamond 1	◇ Information literacy		Becoming adept at using information technology and learning the proper way to process information.	
•	◆ A vision for the future		Understanding self-growth, social change, and technological development so as to gain the skills necessary to bring about one's future vision.	
\Diamond	◇ Moral integrity		Learning how to interact with others, practicing empathy and caring for others, and constructing moral principles with which to solve ethical problems.	
•1	◆ Independent thinking		Encouraging students to keenly observe and seek out the source of their problems, and to think logically and critically.	
\Diamond	A cheerful attitude and healthy lifestyle		Raising an awareness of the fine balance between one's body and soul and the environment; helping students live a meaningful life.	
\Diamond	A spirit of teamwork and dedication		Improving one's ability to communicate and cooperate so as to integrate resources, collaborate with others, and solve problems.	
\Diamond	♦ A sense of aesthetic appreciation		Equipping students with the ability to sense and appreciate aesthetic beauty, to express themselves clearly, and to enjoy the creative process.	
			Course Schedule	
Week	Date	Sub	ject/Topics	Note
1	106/09/18 ~ 106/09/24	Preliminaries		
2	106/09/25 ~ 106/10/01	Evolution of the Major Programming Languages		
3	106/10/02 ~ 106/10/08	Describing Syntax		
4	106/10/09 ~ 106/10/15	Describing Semantics		
5	106/10/16 ~ 106/10/22	Lexical Analysis		
6	106/10/23 ~ 106/10/29	Parse Tree		
7	106/10/30 ~ 106/11/05	Syntax Analysis		
8	106/11/06 ~ 106/11/12	Names, Bindings		
9	106/11/13 ~ 106/11/19			
10	106/11/20 ~ 106/11/26	Midterm Exam Week		

11	106/11/27 ~ 106/12/03	Data Types		
12	106/12/04 ~ Data Types			
13	106/12/11 ~ 106/12/17	Expressions Statement		
14	106/12/18 ~ 106/12/24	Assignment Statement		
15	106/12/25 ~ 106/12/31	Statement-Level Control Structures		
16	107/01/01 ~ 107/01/07	Subprograms 1		
17	107/01/08 ~ 107/01/14	Matlab programming language or project report		
18	107/01/15 ~ 107/01/21	Final Exam Week		
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		
Textbook(s)		Concepts of Programming Languages, by Robert W. Sebesta 7th edition		
Reference(s)				
Number of Assignment(s)		3 (Filled in by assignment instructor only)		
Grading Policy		 ↑ Attendance: 10.0 %		
Note		This syllabus may be uploaded at the website of Course Syllabus Managemenhttp://info.ais.tku.edu.tw/csp or through the link of Course Syllabus Upload phome page of TKU Office of Academic Affairs at http://www.acad.tku.edu.tw/w	osted on the CS/main.php	

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