Tamkang University Academic Year 110, 1st Semester Course Syllabus

Course Title	urse Title DISCRETE MATHEMATICS		HUANG-WEN HUANG			
Course Class	TEIDB2B DEPARTMENT OF COMPUTER SCIENCE AND INFORMATION ENGINEERING (ENGLISH-TAUGHT PROGRAM)SCIENCE AND	Details	 General Course Required One Semester 			
Relevance to SDGs	INFORMATION ENGINEERING, 2B SDG4 Quality education SDG9 Industry, Innovation, and Infrastructure S					
Departmental Aim of Education						
I.Comprehend professional knowledge. II.Acquire mastery of Practical Skills. II.Establish creative achievement.						
	Subject Departmental core competences					
B. Mathematical reasoning ability.(ratio:100.00)						
	Subject Schoolwide essential virtues					
2. Information literacy. (ratio:50.00) 5. Independent thinking. (ratio:50.00)						
Course Introduction						

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 met					
1	To introduce relationship v	the cono with com	Cognitive			
2	To teach students technical terms used and concepts in discrete Cognitive mathematics; as well as the differences between continuous and discrete mathematical models.					
3	To introduce function, seq	concept uence, si	Cognitive			
4	To introduce concepts of induction, recursion and relation as well as Cognitive their definitions and applications. Cognitive					
5	To illustrate o	Cognitive				
The correspondences of teaching objectives : core competences, essential virtues, teaching methods, and assessment						
No.	Core Competences		Essential Virtues	Teaching Methods	Assessment	
1	В		25	Lecture, Practicum	Testing	
2	В		25	Lecture, Practicum	Testing	
3	B		25	Lecture, Practicum	Testing, Study Assignments	
4	В		25	Lecture, Practicum	Testing, Study Assignments, Practicum	
5	В		25	Lecture	Testing	
Course Schedule						
Wee	eek Date Course Contents		rse Contents	Note		
1	110/09/22 ~ 110/09/28	10/09/22 ~ Introduction Logic 10/09/28 Introduction Logic				
2	110/09/29~ 110/10/05	Formal Logic				
3	3 ^{110/10/06~} 110/10/12 Propositional Logic					

4	110/10/13 ~ 110/10/19	Predicate Logic		
5	110/10/20~ 110/10/26	Logic in Mathematics		
6	110/10/27~ 110/11/02	Sets		
7	110/11/03~ 110/11/09	Functions, Sequences and Sums		
8	110/11/10~ 110/11/16	Numbers, Growth of Functions		
9	110/11/17~ 110/11/23	Midterm Exam Week		
10	110/11/24~ 110/11/30	In-Class Exercise		
11	110/12/01~ 110/12/07	Induction		
12	110/12/08~ 110/12/14	Matrix		
13	110/12/15~ 110/12/21	Recursion 2		
14	110/12/22~ 110/12/28	Relations 1		
15	110/12/29~ 111/01/04	Relations 2		
16	111/01/05~ 111/01/11	Graphs 1		
17	111/01/12~ 111/01/18	Graphs 2		
18	111/01/19~ 111/01/25			
Requirement		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				
R	eferences			
Number of Assignment(s)		8 (Filled in by assignment instructor only)		
Grading Policy		 ◆ Attendance: 5.0 % ◆ Mark of Usual: 20.0 % ◆ Midterm Exam: 25.0 % ◆ Other 〈小考2次、作業8次〉: 25.0 % 		

	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
Note	home page of TKU Office of Academic Affairs at <u>http://www.acad.tku.edu.tw/CS/main.php</u> .
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