Tamkang University Academic Year 110, 1st Semester Course Syllabus

Course Title	DISCRETE MATHEMATICS	Instructor	HUANG-WEN HUANG			
Course Class	TEIDB1A DEPARTMENT OF COMPUTER SCIENCE AND INFORMATION ENGINEERING (ENGLISH-TAUGHT PROGRAM)SCIENCE AND	Details	◆ General Course◆ Required◆ One Semester			
Relevance to SDGs	INFORMATION ENGINEERING, 1A SDG4 Quality education SDG9 Industry, Innovation, and Infrastructure					
	Departmental Aim of Educ	ation				
I. Compr	rehend professional knowledge.					
П. Acquir	e mastery of Practical Skills.					
Ⅲ. Establi	sh creative achievement.					
	Subject Departmental core competenc	es				
B. Mathem	natical reasoning ability.(ratio:100.00)					
Subject Schoolwide essential virtues						
2. Informa	ntion literacy. (ratio:50.00)					
5. Independent thinking. (ratio:50.00)						
Course Introduction	This course will teach the students to be familiar with discret is an important fundamental knowledgement in computer so engineering. It will further teach the students to understand functions in discrete mathematics.	cience and sof	tware			

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.

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No.			objective methods			
	To introduce		Cognitive			
	To teach stud mathematics discrete math	; as well	Cognitive			
	To introduce function, seq		Cognitive			
	To introduce	-	Cognitive			
5	To illustrate concepts of graph, its definitions and applications. 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	В		25	Lecture, Practicum	Testing, Study Assignments	
4	В		25	Lecture, Practicum	Testing, Study Assignments, Practicum	
5	В		25	Lecture	Testing	
		1		Course Schedule		
Week	Date	Course Contents			Note	
1	110/09/22 ~ 110/09/28	Introduction Logic				
2	110/09/29 ~ 110/10/05	Formal Logic				
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 ~	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		
Tea	aching Facility	Computer, Projector		
	ooks and ing Materials			
References				
	Number of signment(s)	8 (Filled in by assignment instructor only)		
Grading Policy		◆ Attendance: 5.0 % ◆ Mark of Usual: 20.0 % ◆ Midterm ◆ Final Exam: 25.0 % ◆ Other〈小考2次、作業8次〉: 25.0 %	n Exam: 25.0 %	

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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