Tamkang University Academic Year 109, 2nd Semester Course Syllabus

Course Title	CALCULUS	Instructor	HSIANG-CHUN HSU
Course Class	TLFBB1A DIVISION OF GLOBAL COMMERCE, DEPARTMENT OF INTERNATIONAL BUSINESS (ENGLISH-TAUGHT PROGRAM), 1A	Details	General CourseRequired2nd Semester
Relevance to SDGs	SDG4 Quality education		

Departmental Aim of Education

- ${\tt I.\ Acquisition\ of\ professional\ knowledge}.$
- II. Learning effective self-planning.
- ${\rm I\hspace{-.1em}I\hspace{-.1em}I}$. 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:50.00)
- D. Students can demonstrate that they are critical thinkers.(ratio:50.00)

Subject Schoolwide essential virtues

- 2. Information literacy. (ratio:20.00)
- 5. Independent thinking. (ratio:80.00)

	Course roduction	social a		s with applications in business, economics in this semester include: integration, addi lus of several variables.			
	The	correspo	ndences between the c	ourse'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.							
1 (Coanitive · Fn	nphasis u	pon the study of various	s kinds of knowledge in the cognition of			
	_	-	· ·	ocedures, outcomes, etc.			
II.A	-	-	on the study of various l ude, conviction, values, e	kinds of knowledge in the course's appea	l,		
III.P				course's physical activity and technical			
	mai	nipulatio	n.				
No.		Teaching Objectives objective methods					
1	Students will	vill be able to understand the concepts and skills of Cognitive					
		ion, calculus of several variables, and to solve real-world					
	problems wit	th these t	echniques.				
	The	correspond	lences of teaching objectives	: core competences, essential virtues, teaching me	thods, and assessment		
	Core Competences		Essential Virtues	Teaching Methods	Assessment		
No.	Core Competences		Essential virtues	reacting wearous	7.636351116111		
1	AD		25	Lecture	Testing		
				Course Schedule			
Week	Date	Cour		rse Contents	Note		
1	110/02/22 ~ 110/02/28	5.1 Indefinite Integration and Differential Equations					
2	110/03/01 ~ 110/03/07	5.2 Integration by Substitution					
3	110/03/08 ~ 110/03/14	5.3 The Definite Integral and the Fundamental Theorem of Calculus					
4	110/03/15 ~ 110/03/21	5.4 App	5.4 Applying Definite Integration				
	1	1			İ		

5	110/03/22 ~ 110/03/28	5.6 Additional Applications of Integration to the Life and Social Sciences			
6	110/03/29 ~ 110/04/04				
7	110/04/05 ~ 110/04/11	6.1 Integration by Parts; Integral Tables			
8	110/04/12 ~ 110/04/18	6.3 Improper Integrals			
9	110/04/19 ~ 110/04/25	6.4 Introduction to Continuous Probability			
10	110/04/26 ~ 110/05/02	Midterm Exam Week			
11	110/05/03 ~ 110/05/09	7.1 Functions of Several Variables			
12	110/05/10~ 110/05/16 7.2 Partial Derivatives				
13	110/05/17 ~ 110/05/23	7.2 Partial Derivatives, 7.3 Optimizing Function of Two Variables			
14	110/05/24 ~ 110/05/30	7.3 Optimizing function of two variables			
15	110/05/31 ~ 110/06/06	7.5 Constrained Optimization: The Method of Lagrange			
16	110/06/07 ~ 110/06/13	7.6 Double Integrals			
17	110/06/14 ~ 110/06/20	Review			
18	110/06/21 ~ 110/06/27	Final Exam Week			
Re	quirement				
Tea	ching Facility	Computer, Projector			
Textbooks and Teaching Materials		Calculus for Business, Economics, and the Social and Life Sciences, Brief edition [Hoffmann, Bradley, Sobecki, Price], 11 edition			
R	deferences				
Number of Assignment(s)		(Filled in by assignment instructor only)			
	3 ()				

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