Tamkang University Academic Year 111, 1st Semester Course Syllabus

Course Title	Course Title CALCULUS		CHIANG, CHIEH				
Course Class	TLFBB1B DIVISION OF GLOBAL COMMERCE, DEPARTMENT OF INTERNATIONAL BUSINESS (ENGLISH-TAUGHT PROGRAM), 1B	Details	 General Course Required 1st Semester 				
Relevance to SDGs							
Departmental Aim of Education							
I. Acquis	ition of professional knowledge.						
П. Learnir	ng effective self-planning.						
III. Theore	tical application of practical matters.						
IV. Interpe	ersonal communication and teamwork.						
V. Analysi	s of problems and recommendations.						
VI. Awarer	ness 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:40.00) 							
	 B. Students can demonstrate that they have capability in professional knowledge expression. (ratio:10.00) 						
C. Students can demonstrate that they have capability in using information technology. (ratio:10.00)							
D. Students	D. Students can demonstrate that they are critical thinkers.(ratio:40.00)						
Subject Schoolwide essential virtues							
1. A global perspective. (ratio:5.00)							
2. Information literacy. (ratio:20.00)							
3. A vision for the future. (ratio:10.00)							
4. Moral integrity. (ratio:15.00)							
5. Independent thinking. (ratio:30.00)							
6. A cheerful attitude and healthy lifestyle. (ratio:5.00)							

7. A spirit of teamwork and dedication. (ratio:10.00) 8. A sense of aesthetic appreciation. (ratio:5.00)								
	Course roduction	limits, o	differentiation and expo	s together with its applications. Topics ind nential/logarithmic Functions. Relevant a mics, and the social sciences will also be	pplications			
	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							
	Students are expected to understand the concepts of limit and Cognitive continuity, as well as being familiar with computing the derivatives Cognitive of elementary functions such as polynomials and exponential/logarithmic functions. Also, they are expected to use these techniques to solve practical problem occuring in the relevant areas.							
The correspondences of teaching objectives : core competences, essential virtues, teaching methods, and assessment								
No.	Core Compet	ences	Essential Virtues	Teaching Methods	Assessment			
1	ABCD		12345678	Lecture, Practicum	Testing			
				Course Schedule				
Week	Date	Date Course Contents Note		Note				
1	111/09/05~ 111/09/11	Moon Festival						
2	111/09/12~ 1.1 Functions, 1.2 The graph of a function 111/09/18 1.1 Functions, 1.2 The graph of a function							

3	111/09/19~ 111/09/25	1.3 Lines and linear functions, 1.4 Functional models			
4	111/09/26~ 111/10/02	1.5 Limits, 1.6 One-sided limits and continuity			
5	111/10/03~ 111/10/09	2.1 The derivative; 2.2 Techniques of differentiation			
6	111/10/10~ 111/10/16	2.3 Product and quotient rules; higher-order derivatives			
7	111/10/17~ 111/10/23	2.4 The chain rule			
8	111/10/24 ~ 111/10/30	2.5 Marginal analysis and approximations using increments			
9	111/10/31~ 111/11/06	2.6 Implicit differentiation and related rates			
10	111/11/07~ 111/11/13	Midterm Exam Week			
11	111/11/14~ 111/11/20	3.1 Increasing and decrasing functions; relative extrema			
12	111/11/21~ 111/11/27	3.2 Concavity and points of inflection			
13	111/11/28~ 111/12/04	3.3 Curve sketching			
14	111/12/05~ 111/12/11	3.4 Optimization; elasticity od demand			
15	111/12/12~ 111/12/18	3.5 Additional applied optimization			
16	111/12/19~ 111/12/25	4.1 Exponential functions; continuous compounding,4.2 Logarthmic functinos			
17	111/12/26~ 112/01/01	4.3 Differentiation of exponential and logarithmic functions, 4.4 Additional applications; exponential models			
18	112/01/02 ~ 112/01/08	Final Exam Week			
Re	quirement				
Teaching Facility		Computer			
Textbooks and Teaching Materials		Calculus For Business,Economics, and the Social and Life Sciences (ISBN: 978-007-131071-0)			
References					

Number of Assignment(s)	(Filled in by assignment instructor only)					
Grading Policy	 ♦ Attendance: % ♦ Mark of Usual: 20.0 % ♦ Midterm Exam: 40.0 % ♦ Final Exam: 40.0 % ♦ Other < > : % 					
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. Winauthorized photocopying is illegal. Using original textbooks is advised. It is a crime to improperly photocopy others' publications. 					
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