Tamkang University Academic Year 104, 1st Semester Course Syllabus

Course Title	CALCULUS	Instructor	CHU, LIU
Course Class	TQICB1A DIVISION OF SOFTWARE ENGINEERING, DEPARTMENT OF INNOVATIVE INFORMATION	Details	RequiredOne Semester3 Credits
	AND TECHNOLOGY (ENGLISH-TAUGHT PROGRAM), 1ADepartmental Aim of Educ	ation	
Cultivate pro	ofessional talents in developing and applying information system	m in various fie	elds.
	Departmental core compet	e n c e s	
A. Capabili	ty of computer program coding, process planning, and problem	solving	
B. Capabili	ty of applying basic mathematics and information technology re	elated mathem	natics
C. Capabili system	ty of applying knowledge of internet structure and protocol in c	ommunicatior	n
D. Capabili	ty of developing information system		
E. Capabili	ty of integrating information system		
Course Introduction	The course gives an introductory concept of calculus with examplication contents in order to establish foundations for adv	·	S.

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

P6-Origination

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,

(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.)

			Relevance	
No	Teaching Objectives	Objective Levels	Departmental core competences	
1	(1)coordinate systems (2)function (3)differentiation (4)integration	C4	В	
	(5)application (6)course development			

Teaching Objectives, Teaching Methods and Assessment

No.	Teaching Objectives	Teaching Methods	Assessment
1	(1)coordinate systems (2)function (3)differentiation (4)integration (5)application (6)course development	Lecture	Written test, Participation, attendance

	Essential	Qualities of TKU Students	Descrip	tion	
		pective	Helping students develop a broader perspective from which to understand international affairs and global development.		
◆ Information literacy		teracy	Becoming adept at using information technology and learning the proper way to process information.		
◆ A vision for the future		e future	Understanding self-growth, social change, and technological development so as to gain the skills necessary to bring about one's future vision.		
		у	Learning how to interact with others, practicing empathy and caring for others, and constructing moral principles with which to solve ethical problems.		
\Diamond	Independent :	thinking	Encouraging students to keenly observe and seek out the source of their problems, and to think logically and critically.		
A cheerful attitude and healthy lifestyle		itude 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.	
		mwork and dedication		Improving one's ability to communicate and cooperate so as to integrate resources, collaborate with others, and solve	
A sense of aesthetic appreciation		sthetic appreciation		Equipping students with the ability to sense and appreciate aesthetic beauty, to express themselves clearly, and to enjoy	
			Course Schedule	_	
Week	Date		Subject/Topics	Note	
1	104/09/14 ~ 104/09/20	Ch 0. A Pre-calculus Review			
2	104/09/21 ~ 104/09/27	Ch 1. Functions, Graphs, and Limits			
3	104/09/28 ~ 104/10/04	Ch 2. Differentiation			
4	104/10/05 ~ 104/10/11	Ch 2. Differentiation			
5	104/10/12 ~ 104/10/18	Ch 3. Applications of the Derivative, 1st quiz.			
6	104/10/19 ~ 104/10/25	Ch 3. Applications of the Derivative			
7	104/10/26 ~ 104/11/01	Ch 4. Exponential and Logarithmic Functions			
8	104/11/02 ~ 104/11/08	Ch 4. Exponential and Logarithmic Functions			
9	104/11/09 ~ 104/11/15	Ch 4. Exponential and Logarithmic Functions			
10	104/11/16 ~ 104/11/22	Midterm Exam Week			
	104/11/23 ~	Ch 5. Integration and its Applications			
11	104/11/29			1	

13	104/12/07 ~ 104/12/13	Ch 5. Integration and its Applications	
14	104/12/14 ~ 104/12/20	Ch 6. Techniques of Integration, 2nd quiz.	
15	104/12/21 ~ 104/12/27	104/12/21~ Ch 6. Techniques of Integration	
16	104/12/28 ~ 105/01/03	Ch 7. Functions of Several Variables	
17	105/01/04 ~ 105/01/10	Ch 7. Functions of Several Variables	
18	105/01/11 ~ 105/01/17	Final Exam Week	
Re	quirement	1. 1. Attendance of all classes is required. 請務必出席所有課程。 2. Any absence will result in at least 5 points of "Participation" deducted. Please call me or text me before class. 病假事假扣「課堂表現」5分・請上課前通知老師。 3. Absence without leave will result in 30 points of "Participation" deducted. 曠課每交扣「課堂表現」30分。 4. Cheating or plagiarism will result in failure in the course. 作弊、抄襲會導致本課程不及格。 5. Talking, eating, using mobile phone and wearing slippers during class are not allowed, and will be expelled from the class. 上課請勿: 交談、飲食、使用行動電話・或穿著拖鞋。 以上行為因影響教師課程進行・將被要求離開教室。 6. Late arrival, early departure (over 20 minutes), and the stated inappropriate behavior will result in 30 points of "Participation" deducted. 遲到、早退 (超過20分鐘)・及前述不當行為每次	
Teaching Facility Computer, Projector		Computer, Projector	
Textbook(s)		Calculus, An Applied Approach, Larson and Edwards, Houghton Mifflin, 9th edi	tion.
Re	eference(s)		
Number of Assignment(s) (Filled in by assignment instructor only)		(Filled in by assignment instructor only)	
	Grading Policy		
	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 . **Unauthorized photocopying is illegal. Using original textbooks is advised. It is a crime to improperly photocopy others' publications.		osted on the CS/main.php .

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