Tamkang University Academic Year 110, 1st Semester Course Syllabus

Course Title	NUMERICAL ANALYSIS	Instructor	CHU, LIOU			
Course Class	TEIDB3P DEPARTMENT OF COMPUTER SCIENCE AND INFORMATION ENGINEERING (ENGLISH-TAUGHT PROGRAM)SCIENCE AND One Semester 					
Relevance to SDGs	INFORMATION ENGINEERING, 3P SDG4 Quality education SDG9 Industry, Innovation, and Infrastructure					
Departmental Aim of Education						
I.Comprehend professional knowledge. 耳.Acquire mastery of Practical Skills. Ⅲ.Establish creative achievement.						
Subject Departmental core competences						
B. Mathematical reasoning ability.(ratio:100.00)						
Subject Schoolwide essential virtues						
2. Information literacy. (ratio:70.00) 5. Independent thinking. (ratio:30.00)						
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.			objective methods			
1	Understanding of numerical analysis, and related compositive software.			ated computer	Cognitive	
	The c	orrespond	lences of teaching objectives	s : core competences, essential virtues, teaching me	thods, and assessment	
No.	Core Competences		Essential Virtues	Teaching Methods	Assessment	
1	. В		25	Lecture, Discussion	Testing, Study Assignments, Discussion(including classroom and online)	
				Course Schedule		
Week	Date Course Contents Note				Note	
1	110/09/22 ~ 110/09/28	Introduction				
2	110/09/29~ 110/10/05	Numbe	Number system and errors			
3	110/10/06~ 110/10/12	Numbe	Number system and errors			
4	110/10/13~ 110/10/19	Numbe	Number system and errors			
5	110/10/20~ 110/10/26	Roots	Roots of equations			
6	110/10/27 ~ 110/11/02	Roots	Roots of equations			
7	110/11/03~ 110/11/09	System	System of linear equations			
8	110/11/10~ 110/11/16	System	System of linear equations			
9	110/11/17 ~ 110/11/23	Midterm Exam Week				
10	110/11/24 ~ 110/11/30	System of linear equations				
11	110/12/01~ 110/12/07	~ Interpolation				

12	110/12/08~ 110/12/14	Interpolation		
13	110/12/15~ 110/12/21	Numerical optimization		
14	110/12/22 ~ 110/12/28	Numerical optimization		
15	110/12/29~ 111/01/04	Numerical optimization		
16	111/01/05~ 111/01/11	Numerical optimization		
17	111/01/12~ 111/01/18	Final Exam Week		
18	111/01/19~ 111/01/25			
Requirement				
Teaching Facility		Computer, Projector		
Textbooks and Teaching Materials		An Introduction to Numerical Methods A MATLAB Approach, Abdelwahab Kharab, Ronald B. Guenther, CRC Press. (ISBN: 9781439868997)		
References				
Number of Assignment(s)		4 (Filled in by assignment instructor only)		
Grading Policy		 ♦ Attendance: 10.0 % ♦ Mark of Usual: 40.0 % ♦ Midterm Exam: 20.0 % ♦ Final Exam: 20.0 % ♦ Other ⟨Performance⟩: 10.0 % 		
Note		This syllabus may be uploaded at the website of Course Syllabus Management System at <u>http://info.ais.tku.edu.tw/csp</u> or through the link of Course Syllabus Upload posted on the home page of TKU Office of Academic Affairs at <u>http://www.acad.tku.edu.tw/CS/main.php</u> . ** Unauthorized photocopying is illegal. Using original textbooks is advised. It is a crime to improperty photocopy others' publications		
		to miscoperi photocopy energy public publications.		

TEIDB3E0767 0P

Page:3/3 2021/7/1 21:13:39