Tamkang University Academic Year 109, 1st Semester Course Syllabus

Course Title	NUMERICAL ANALYSIS	Instructor	WU, SHIH-JUNG			
Course Class	TQICB3A DIVISION OF SOFTWARE ENGINEERING, DEPARTMENT OF INNOVATIVE INFORMATION	Details	General CourseSelectiveOne Semester			
	AND TECHNOLOGY (ENGLISH-TAUGHT					
PROGRAM), 3A _{Departmental Aim of Education}						
Cultivate professional talents in developing and applying information system in various fields.						
Subject Departmental core competences						
B. Capability of applying basic mathematics and information technology related mathematics(ratio:100.00)						
Subject Schoolwide essential virtues						
2 Informs	tion literacy (ratio 70.00)					
2.1111011111	tion literacy. (ratio:70.00)					
5. Indeper	ndent thinking. (ratio:30.00)					
Course Introduction	Train students to apply the theoretical methods of big data a Classification, Trend analysis, Clustering, Association, Sequen learning, and the ability to independently complete application big data analysis techniques to solve real problems.	ce pattern, Ma	achine			

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.

	manipulation.								
No.			objective methods						
	Train students to apply the theoretical methods of big data analysis, such as Classification, Trend analysis, Clustering, Association, Sequence pattern, Machine learning, and the ability to independently complete application data mining and big data analysis techniques to solve real problems.								
	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, Publication, Experience	Testing, Discussion(including classroom and online), Report(including oral and written)				
				Course Schedule					
Week	Date	Course Contents Note							
1	109/09/14 ~ 109/09/20	Introduction							
2	109/09/21 ~ 109/09/27	Classifi	Classification						
3	109/09/28 ~ 109/10/04	Classifi	Classification						
4	109/10/05 ~ 109/10/11	Trend a	Trend analysis						
5	109/10/12 ~ 109/10/18	Trend a	Trend analysis						
6	109/10/19 ~ 109/10/25	Trend analysis							
7	109/10/26 ~ 109/11/01	Clustering							
8	109/11/02 ~ 109/11/08	Clustering							
9	109/11/09 ~ 109/11/15	Clustering							

10	109/11/16 ~ 109/11/22	Midterm Exam Week			
11	109/11/23 ~ 109/11/29	Association			
12	109/11/30 ~ 109/12/06	Association			
13	109/12/07 ~ 109/12/13	Association			
14	109/12/14 ~ 109/12/20	Machine Learning			
15	109/12/21 ~ 109/12/27	Machine Learning			
16	109/12/28 ~ 110/01/03	Machine Learning			
17	110/01/04 ~ 110/01/10	Machine Learning			
18	110/01/11 ~ 110/01/17	Final Exam Week			
Re	quirement				
Teaching Facility		Computer			
	oks and ng Materials	Related references			
R	References				
	lumber of signment(s)	3 (Filled in by assignment instructor only)			
Grading Policy		 ◆ Attendance: 60.0 % ◆ Mark of Usual: % ◆ Midterm Exam: % ◆ Final Exam: % ◆ Other 〈Report〉: 40.0 % 			
	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 . ** Unauthorized photocopying is illegal. Using original textbooks is advised. It is a crime to improperly photocopy others' publications.			
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