Tamkang University Academic Year 108, 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 Informa	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.	ice 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.

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)					
	1			Course Schedule						
Week	Date	Course Contents Note								
1	108/09/09 ~ 108/09/15	Introdu	Introduction							
2	108/09/16 ~ 108/09/22	Classifi	Classification							
3	108/09/23 ~ 108/09/29	Classifi	Classification							
4	108/09/30 ~ 108/10/06	Trend a	Trend analysis							
5	108/10/07 ~ 108/10/13	Trend analysis								
6	108/10/14 ~ 108/10/20	Trend analysis								
7	108/10/21 ~ 108/10/27	Clustering								
8	108/10/28 ~ 108/11/03	Clustering								
9	108/11/04 ~ 108/11/10	Clustering								

10	108/11/11 ~ 108/11/17	Midterm Exam Week				
11	108/11/18 ~ 108/11/24	Association				
12	108/11/25 ~ 108/12/01	Association				
13	108/12/02 ~ 108/12/08	Association				
14	108/12/09 ~ 108/12/15	Machine Learning				
15	108/12/16 ~ 108/12/22	Machine Learning				
16	108/12/23 ~ 108/12/29	Machine Learning				
17	108/12/30 ~ 109/01/05	Machine Learning				
18	109/01/06 ~ 109/01/12	Final Exam Week (Date:109/1/3-109/1/9)				
Re	quirement					
Tea	iching Facility	Computer				
Textbooks and Teaching Materials		Related references				
F	References					
	lumber of signment(s)	3 (Filled in by assignment instructor only)				
Grading Policy		<pre> Attendance: 60.0 %</pre>				
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				
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TQICB3E0767 0A Page:3/3 2019/6/13 18:24:25