## Tamkang University Academic Year 109, 2nd Semester Course Syllabus

Course Title	DATA MINING	Instructor	CHEN, DUEN-KAI			
Course Class	TQICB4A  DIVISION OF SOFTWARE ENGINEERING,  DEPARTMENT OF INNOVATIVE INFORMATION  AND TECHNOLOGY (ENGLISH-TAUGHT	Details	<ul><li>General Course</li><li>Selective</li><li>One Semester</li></ul>			
Relevance to SDGs	PROGRAM), 4A SDG4 Quality education					
Departmental Aim of Education						
Cultivate professional talents in developing and applying information system in various fields.						
Subject Departmental core competences						
E. Capability of integrating information system(ratio:100.00)						
	Subject Schoolwide essential virtues					
1. A globa	perspective. (ratio:10.00)					
2. Information literacy. (ratio:70.00)						
5. Indeper	dent thinking. (ratio:10.00)					
7. A spirit of teamwork and dedication. (ratio:10.00)						
Course Introduction	Data mining is the automated extraction of patterns represer implicitly stored in massive data repositories. This course expand techniques of Data Mining.	-				

## 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.

	man	пригастот	11.					
No.			objective methods					
	Students will learn the concepts and techniques of data mining, and  Should be able to perform basic data analysis.  Cognitive							
	The correspondences of teaching objectives : core competences, essential virtues, teaching methods, and assessment							
No.	Core Competences		Essential Virtues	Teaching Methods	Assessment			
1	E		1257	Lecture, Discussion, Practicum, Experience	Study Assignments, Discussion(including classroom and online), Practicum, Report(including oral and written), Activity Participation			
	Course Schedule							
Week	Date	Course Contents		Note				
1	110/02/22 ~ 110/02/28	Course Overview and Introduction						
2	110/03/01 ~ 110/03/07	Review of Database system and DBMS						
3	110/03/08 ~ 110/03/14	Introduction to Data Mining						
4	110/03/15 ~ 110/03/21	Introdu	Introduction to Data Mining					
5	110/03/22 ~ 110/03/28	Data Pi	Data Preprocessing					
6	110/03/29 ~ 110/04/04	Teaching administration observation period & National holidays						
7	110/04/05 ~ 110/04/11	Examp	Example application and case study					
8	110/04/12 ~ 110/04/18	Examp	Example application and case study					
9	110/04/19 ~ 110/04/25	Data Mining Software						
10	110/04/26 ~ 110/05/02	Midterm Exam Week						

11	110/05/03 ~ 110/05/09	Mining Frequent Patterns, Associations, and Correlations		
12	110/05/10 ~ 110/05/16	Mining Frequent Patterns, Associations, and Correlations		
13	110/05/17 ~ 110/05/23	Classification and Prediction		
14	110/05/24 ~ 110/05/30	Classification and Prediction		
15	110/05/31 ~ 110/06/06	Graduate Exam Week		
16	110/06/07 ~ 110/06/13			
17	110/06/14 ~ 110/06/20			
18	110/06/21 ~ 110/06/27			
Re	quirement			
Tea	ching Facility	Computer, Projector		
Textbooks and Teaching Materials		Jiawei Han, Micheline Kamber, Jian Pei, Data Mining – Concepts and Techniques, 3rd edition, Morgan Kaufmann Pulishers		
R	References			
Number of Assignment(s)		(Filled in by assignment instructor only)		
Grading Policy		<ul> <li>◆ Attendance: % ◆ Mark of Usual: 40.0 % ◆ Midterm Exam: 15.0 %</li> <li>◆ Final Exam: 5.0 %</li> <li>◆ Other 〈Course project〉: 40.0 %</li> </ul>		
Note		This syllabus may be uploaded at the website of Course Syllabus Management System at <a href="http://info.ais.tku.edu.tw/csp">http://info.ais.tku.edu.tw/csp</a> or through the link of Course Syllabus Upload posted on the home page of TKU Office of Academic Affairs at <a href="http://www.acad.tku.edu.tw/CS/main.php">http://www.acad.tku.edu.tw/CS/main.php</a> .  **Unauthorized photocopying is illegal. Using original textbooks is advised. It is a crime		
		to improperly photocopy others' publications.		

TQICB4M0947 0A Page:3/3 2021/5/31 4:01:07