Tamkang University Academic Year 108, 2nd Semester Course Syllabus

Course Title	DATA MINING	Instructor	LIAO SHU-HSIEN
Course Class	TLQXM1A MASTER'S PROGRAM IN BUSINESS AND MANAGEMENT (ENGLISH-TAUGHT PROGRAM),	Details	General CourseSelectiveOne Semester

Departmental Aim of Education

- I. Develop a business and management perspective for students.
- II. Train the professionals in the integrated fields of business and management.
- III. Cultivate the talents with both theory and practices in business and management.

Subject Departmental core competences

- A. Provide the basic knowledge of both theory and practices.(ratio:25.00)
- B. Enhance the practical training for the current trends.(ratio:25.00)
- C. Cultivate the ethics in business and management.(ratio:25.00)
- D. Obtain the ability of analyzing industrial and business problems.(ratio:25.00)

Subject Schoolwide essential virtues

- 1. A global perspective. (ratio:20.00)
- 2. Information literacy. (ratio:50.00)
- 5. Independent thinking. (ratio:30.00)

Course Introduction

Data mining is not only an approach but also a methodology to investigate database as the problem domain of the big data. Thus, this course aims at several issues, including data and database, database model, big data, data mining functions, data mining approaches and the design of business intelligence architecture. In these regards, this course provides student a horizon to a big data analysis technology.

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						
	Student learr Student learr database. Stu	is how to	Cognitive						
	The correspondences of teaching objectives: core competences, essential virtues, teaching methods, and assessment								
No.	Core Competences		Essential Virtues	Teaching Methods	Assessment				
1	ABCD		125	Lecture, Discussion	Discussion(including classroom and online), Practicum, Report(including oral and written)				
	ı	Γ		Course Schedule					
Week	Date	ate Course Contents		Note					
1	109/03/02 ~ 109/03/08	3/4 Course introduction and evaluation							
2	109/03/09 ~ 109/03/15	3/11 Basic concept of business intelligence							
3	109/03/16 ~ 109/03/22	3/18 Relational database development – ER model							
4	109/03/23 ~ 109/03/29	3/25 Relational database development – enhanced ER model							
5	109/03/30 ~ 109/04/05	4/1 Relational database development – Logical ER model							
6	109/04/06 ~ 109/04/12	4/8 Data warehousing							
7	109/04/13 ~ 109/04/19	4/15 Introduction on data mining							
8	109/04/20 ~ 109/04/26	4/22 Data mining approaches							
9	109/04/27 ~ 109/05/03	4/29 Midterm Exam Week Report writing							
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109/05/04 ~ 109/05/10	5/6 SPSS Modeler Introduction				
109/05/11 ~ 109/05/17	5/13 SPSS Modeler practice				
109/05/18 ~ 109/05/24	5/20 SPSS Modeler practice				
109/05/25 ~ 109/05/31	5/27 SPSS Modeler practice				
109/06/01 ~ 109/06/07	6/3 Report presentation – session 1				
109/06/08 ~ 109/06/14	6/10 Report presentation – session 2				
109/06/15 ~ 109/06/21	6/17 Report presentation – session 3				
109/06/22 ~ 109/06/28	6/24 Final Exam Week	Submit report			
109/06/29 ~ 109/07/05	Supplementary teaching:				
equirement	1. Attendance 2. Presentation skill and content 3. Final report				
aching Facility	Computer, Projector				
ooks and ing Materials	Mark Hall; Ian Witten; and Eibe Frank; Data Mining: Practical Machine Learning Tools and Textbook(s) Techniques, third edition, (2013). Morgan Kaufmann Publishers (ISBN: 978-0-12-374856-0).				
References	I-Class teaching materials				
Number of signment(s)	(Filled in by assignment instructor only)				
Grading Policy	 Attendance: 20.0 %				
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.				
	109/05/10 109/05/11 ~ 109/05/17 109/05/18 ~ 109/05/24 109/05/25 ~ 109/06/07 109/06/08 ~ 109/06/14 109/06/15 ~ 109/06/22 ~ 109/06/29 ~ 109/07/05 equirement aching Facility coks and ng Materials References Sumber of signment(s) Grading Policy	109/05/10 5/6 SPSS Modeler Introduction 109/05/11 109/05/12 5/13 SPSS Modeler practice 109/05/12 5/20 SPSS Modeler practice 109/05/24 5/27 SPSS Modeler practice 109/05/25 109/05/25 109/05/25 6/3 Report presentation – session 1 109/06/07 6/3 Report presentation – session 2 109/06/13 109/06/14 6/10 Report presentation – session 2 109/06/15 109/06/25 6/24 Final Exam Week 109/06/27 109/06/28 Supplementary teaching: 1. Attendance 2. Presentation skill and content 3. Final report 1. Attendance 2. Presentation skill and content 3. Final report 1. Attendance 2. Presentation 2. Final Exam Week 2. Presentation 3. Final report 1. Attendance 2. Presentation skill and content 3. Final report 1. Attendance 2. Presentation skill and content 3. Final report 1. Attendance 2. Presentation 2. Presentation 3. Final report 2. Presentation 4. Attendance 4. Attendance 4. Attendance 4. Attendance 4. Attendance 2. Presentation 4. Attendance 4. Attendance 4. Attendance 4. Attendance 4. Atte			

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