Tamkang University Academic Year 109, 2nd Semester Course Syllabus

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Course Title	DATA MINING	Instructor	LIAO SHU-HSIEN			
Course Class	TLQXM1A MASTER'S PROGRAM IN BUSINESS AND MANAGEMENT (ENGLISH-TAUGHT PROGRAM), 1A	Details	◆ General Course ◆ Selective ◆ One Semester			
Relevance to SDGs	SDG8 Decent work and economic growth SDG9 Industry, Innovation, and Infrastructure					
	Departmental Aim of Educ	ation				
I . Develop a business and management perspective for students.						
Ⅱ. Train t	he professionals in the integrated fields of business and manage	ement.				
Ⅲ. Cultiva	ite the talents with both theory and practices in business and ma	anagement.				
	Subject Departmental core competenc	es				
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 t	he ability of analyzing industrial and business problems.(ratio:2	5.00)				
	Subject Schoolwide essential virtues					
1. A globa	Il perspective. (ratio:20.00)					
2. Informa	ation literacy. (ratio:50.00)					
5. Indeper	ndent thinking. (ratio:30.00)					
Course	Data mining is not only an approach but also a methodology database as the problem domain of the big data. Thus, this c issues, including data and database, database model, big dafunctions, data mining approaches and the design of busines architecture. In these regards, this course provides student a	ourse aims at ta, data mining ss intelligence	several			
Introduction	analysis technology.	HOHZOH LO d L	ng data			

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.

		objective methods						
Student learn	ns how to	Cognitive						
The correspondences of teaching objectives: core competences, essential virtues, teaching methods, and assessment								
Core Competences		Essential Virtues	Teaching Methods	Assessment				
ABCD		125	Lecture, Discussion, Practicum	Discussion(including classroom and online), Practicum, Report(including oral and written)				
Course Schedule								
Date	Course Contents			Note				
110/02/22 ~ 110/02/28	2/24 Course introduction and evaluation							
110/03/01 ~ 110/03/07	3/3 Bas	sic concept of business i						
110/03/08 ~ 110/03/14	3/10 Relational database development – ER model							
110/03/15 ~ 110/03/21	3/17 Relational database development – enhanced ER model							
110/03/22 ~ 110/03/28	3/24 Relational database development – Logical ER model							
110/03/29 ~ 110/04/04	3/31 Administrative use day			Day off				
110/04/05 ~ 110/04/11	4/7 Da	ta Warehousing						
110/04/12 ~ 110/04/18	4/14 In							
110/04/19 ~ 110/04/25	4/21 D	ata mining approaches						
	Student learn database. Stu The of Core Competed ABCD ABCD Language Student learn database. Student	Student learns how to database. ABCD 110/02/22 ~ 110/03/03 ~ 3/31 Rearns how to database. Student learns how to databas	Student learns how to see and Report, organic Student learns how to implement data mining database. Student learns the concept of busing The correspondences of teaching objectives. Core Competences Essential Virtues ABCD 125 Date Course introduction and allowards and allowards and allowards are introduction and allowards and allowards are introduction and allowards are introductional database development and allowards are introductional database development allowards are introdu	Core Competences Essential Virtues Teaching Methods ABCD 125 Lecture, Discussion, Practicum Course Schedule Course Contents 110/02/22~ 110/03/07 3/3 Basic concept of business intelligence 110/03/07 3/10 Relational database development – ER model 110/03/14 110/03/15~ 110/03/21 3/17 Relational database development – enhanced ER model 110/03/22~ 110/03/23 3/24 Relational database development – Logical ER model 110/03/29~ 110/03/29~ 110/03/29~ 110/04/04 3/31 Administrative use day 110/04/05~ 110/04/05 4/7 Data Warehousing 110/04/12 4/14 Introduction on data mining 110/04/19~ 4/21 Data mining approaches				

110/04/26 ~ 110/05/02	4/28 Midterm Exam Week	l .			
110/03/02	4/20 Wildlettii Exaiti Week	Report writing			
110/05/03 ~ 110/05/09	5/5 Report presentation – session 1				
110/05/10 ~ 110/05/16	5/12 Report presentation – session 2				
110/05/17 ~ 110/05/23	5/19 Report presentation – session 3				
110/05/24 ~ 110/05/30	5/26 Report presentation – session 4				
110/05/31 ~ 110/06/06	6/2 Report presentation – session 5				
110/06/07 ~ 110/06/13	6/9 Report presentation – session 6				
110/06/14 ~ 110/06/20	6/16 Report presentation – session 7				
110/06/21 ~ 110/06/27	6/23 Final Exam Week	Submit report			
Requirement 1. Attendance 2. Presentation skill and content 3. Final report					
aching Facility Computer, Projector					
ooks and ng 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 Assignment(s) (Filled in by assignment instructor only)					
Grading Policy					
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 Note 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.					
	110/05/09 110/05/10 ~ 110/05/16 110/05/16 110/05/17 ~ 110/05/23 110/05/24 ~ 110/05/30 110/05/31 ~ 110/06/06 110/06/07 ~ 110/06/13 110/06/14 ~ 110/06/27 quirement ching Facility coks and ng Materials deferences dumber of signment(s) Grading Policy	110/05/10			

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