Tamkang University Academic Year 111, 1st Semester Course Syllabus

Course Title	APPLICATION OF BIG DATA ANALYTICS IN BUSINESS	Instructor	MENG-IA CHUNG
Course Class	TLGBM1A MASTER'S PROGRAM IN BUSINESS AND MANAGEMENT, DEPARTMENT OF MANAGEMENT SCIENCES (ENGLISH-TAUGHT	Details	 General Course Selective One Semester
Relevance to SDGs	ce SDG9 Industry, Innovation, and Infrastructure		
	Departmental Aim of Educ	ation	
I. Develo Ⅱ. Train tł Ⅲ. Cultiva	p a business and management perspective for students. ne professionals in the integrated fields of business and manage te the talents with both theory and practices in business and ma	ement. inagement.	
	Subject Departmental core competence	es	
A. Provide the basic knowledge of both theory and practices.(ratio:30.00)			
B. Enhance	the practical training for the current trends.(ratio:20.00)		
C. Cultivate the ethics in business and management.(ratio:20.00)			
D. Obtain the ability of analyzing industrial and business problems.(ratio:30.00)			
	Subject Schoolwide essential virtues		
1. A global perspective. (ratio:10.00)			
2. Information literacy. (ratio:30.00)			
3. A vision for the future. (ratio:20.00)			
4. Moral integrity. (ratio:10.00)			
5. Independent thinking. (ratio:10.00)			
6. A cheerful attitude and healthy lifestyle. (ratio:5.00)			
7. A spirit of teamwork and dedication. (ratio:10.00)			
8. A sense of aesthetic appreciation. (ratio:5.00)			

Iı	Course ntroduction	This co into th inferen We wil will use	ourse is an introduction t ree parts. First, we will le nce. Second, we will learr I then learn to apply son e R and SPSS software in	o big data analysis. The course is roughly arn (review) basic probability and statistic n to use the general linear model to analy ne machine learning algorithms to data a the class.	r divided cal ze data. nalysis. We	
Di dc I. II.	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.					
	ma	anipulation	n.	course's physical activity and technical		
No.			Teaching Ob	jectives	objective methods	
1	The goal of this course is to help students learn, understand, and Cognitive					
2	learn to app	learn to apply statistical methods to big data analytics Cognitive				
3	learn to apply statistical methods to big data analytics Cognitive					
4	Learn to use R and SPSS to conduct different analyses Cognitive					
5	Learn to use R and SPSS to conduct different analyses Cognitive					
6	Learn to use R and SPSS to conduct different analyses Cognitive					
7	Learn to use R and SPSS to conduct different analyses Cognitive					
8	Learn to use R and SPSS to conduct different analyses Cognitive					
	The correspondences of teaching objectives : core competences, essential virtues, teaching methods, and assessment					
No.	Core Compe	etences	Essential Virtues	Teaching Methods	Assessment	
1	ABCD		12345678	Lecture	Testing, Study Assignments	
2	ABCD		12345678	Lecture	Testing, Study Assignments	

3	3 ABCD		12345678	Lecture	Testing, Study Assignments
4	4 ABCD		12345678	Lecture	Testing, Study Assignments
5	ABCD		12345678	Lecture	Testing, Study Assignments
6	ABCD		12345678	Lecture	Testing, Study Assignments
7	ABCD		12345678	Lecture	Testing, Study Assignments
8	ABCD		12345678	Lecture	Testing, Study Assignments
				Course Schedule	
Weel	Veek Date Course Contents Note				Note
1	111/09/05~ 111/09/11 Introd		uction		
2	111/09/12~ 111/09/18	Probab	pility and statistical infere	ence for big data analysis	
3	111/09/19~ 111/09/25	Unsupervised learning I			
4	111/09/26~ 111/10/02	Unsupervised learning II			
5	111/10/03 ~ 111/10/09	Unsupervised learning III			
6	111/10/10~ 111/10/16	Unsup	Unsupervised learning IV		
7	111/10/17 ~ 111/10/23	Unsupervised learning V			
8	111/10/24 ~ 111/10/30	Review 1			
9	111/10/31~ 111/11/06	Midter	Midterm		
10	111/11/07~ 111/11/13	Superv	Supervised learning I		
11	111/11/14 ~ 111/11/20	Superv	Supervised learning II		
12	111/11/21 ~ 111/11/27	Superv	Supervised learning III		
13	111/11/28 ~ 111/12/04	Superv	Supervised learning IV		
14	111/12/05 ~ 111/12/11	Supervised learning V			
15	111/12/12 ~ 111/12/18	Supervised learning VI			
16	111/12/19~ 111/12/25	Supervised learning VII			
17	111/12/26~ Review 2				

18	112/01/02 ~ 112/01/08	Final Exam	
Requirement			
Teaching Facility		Computer	
Textbooks and Teaching Materials		Lecture notes	
R	eferences	 The Elements of Statistical Learning: Data Mining, Inference, and Prediction 2. Pattern Recognition and Machine Learning 	
N Ass	lumber of signment(s)	2 (Filled in by assignment instructor only)	
	Grading Policy	 Attendance: % ◆ Mark of Usual: % ◆ Midterm Exam: % Final Exam: % Other (2 assignments) : 100.0 % 	
	This syllabus may be uploaded at the website of Course Syllabus Management System at <u>http://info.ais.tku.edu.tw/csp</u> 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 . Winauthorized photocopying is illegal. Using original textbooks is advised. It is a crime to improperly photocopy others' publications.		

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