Tamkang University Academic Year 111, 1st Semester Course Syllabus

Course Title	Course Title INTRODUCTION TO ARTIFICIAL INTELLIGENCE AND EXPERT SYSTEMS		CHEN, DUEN-KAI			
Course Class	TEIDB3P DEPARTMENT OF COMPUTER SCIENCE AND INFORMATION ENGINEERING (ENGLISH-TAUGHT PROGRAM), 3P	Details	Blended Course Selective One Semester 3 Credits			
Relevance to SDGs	SDG4 Quality education SDG9 Industry, Innovation, and Infrastructure SDGs					
	Departmental Aim of Educ	ation				
I. Compr	ehend professional knowledge.					
II. Acquire	e mastery of Practical Skills.					
Ⅲ. Establis	III. Establish creative achievement.					
Subject Departmental core competences						
A. Programming and application ability.(ratio:10.00)						
B. Mathem	atical reasoning ability.(ratio:30.00)					
C. Impleme	enting computer systems ability.(ratio:20.00)					
D. Computer networking application skills.(ratio:10.00)						
E. Professional skills for information technology (IT) industry.(ratio:30.00)						
	Subject Schoolwide essential virtues					
1. A globa	l perspective. (ratio:10.00)					
2. Information literacy. (ratio:20.00)						
3. A vision for the future. (ratio:10.00)						
4. Moral integrity. (ratio:10.00)						
5. Independent thinking. (ratio:10.00)						
6. A cheerful attitude and healthy lifestyle. (ratio:10.00)						
7. A spirit of teamwork and dedication. (ratio:20.00)						
8. A sense of aesthetic appreciation. (ratio:10.00)						

Int	Course roduction	This cla intellig well as algorit This co	ass aims to provide an in ence researches, includi numerical approaches, hms. Fundamental mach urse will also touch the	ntroduction to efforts from a wide range o ing symbolic approaches, such as Expert S such as artificial neural networks and gen nine learning concepts is also covered in t social impact of AI.	of artificial Systems, as etic his course.	
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.	Teaching Objectives objective methods				objective methods	
1	Introduce efforts from a wide range of artificial intelligence researches to students.				Cognitive	
	The	correspond	lences of teaching objectives	: core competences, essential virtues, teaching me	thods, and assessment	
No.	Core Compe	tences	Essential Virtues	Teaching Methods	Assessment	
1	ABCDE		12345678	Lecture, Discussion, Practicum	Study Assignments, Discussion(including classroom and online), Practicum, Report(including oral and written), Activity Participation	
Course Schedule Note for Blended Course : When utilizing weekly digital instruction, please fill in "Online Asynchronous Instruction".						
Week	Veek Date Course Contents Note				Note	
1	111/09/05 ~ 111/09/11	Overview of this course				
2	111/09/12~ 111/09/18	Uses and Limitations. Introduction to AI applications.				
3	111/09/19~111/09/25Introduction to AI applications.					

4	111/09/26~ 111/10/02	Brief History of Artificial Intelligence		
5	111/10/03~ 111/10/09	Brief History of Artificial Intelligence		
6	111/10/10~ 111/10/16	Social impact of AI		
7	111/10/17~ 111/10/23	Text to Image	Online Asynchronous Instruction	
8	111/10/24~ 111/10/30	Search Methodologies and Game Playing		
9	111/10/31~ 111/11/06	Course Project Presentation - Expert Systems		
10	111/11/07~ 111/11/13	Midterm Exam Week		
11	111/11/14~ 111/11/20	Expert systems and Rule-based systems		
12	111/11/21~ 111/11/27	Expert systems and Rule-based systems	Online Asynchronous Instruction	
13	111/11/28~ 111/12/04	Introduction to Machine Learning		
14	111/12/05~ 111/12/11	Introduction to Machine Learning		
15	111/12/12 ~ 111/12/18	Introduction to Machine Learning	Online Asynchronous Instruction	
16	111/12/19~ 111/12/25	Introduction to Machine Learning		
17	111/12/26~ 112/01/01	Course Project Presentation - Machine Learning	Online Asynchronous Instruction	
18	112/01/02~ 112/01/08	Final Exam Week		
Re	quirement	Details of grading policy and how course project works will be announce in the Lecturer remain the rights to adjust grading policy. 成績計算方式及專題執行細節將於課堂上說明,且授課教師保留調整計算方式的彈性	first class.	
Teaching Facility		Computer, Projector		
Textbooks and Teaching Materials		Artificial Intelligence Illuminated, Ben Coppin, Jones & Bartlett Publishers (March 2004), ISBN-13: 978-0763732301		
References		Artificial Intelligence: a guide to intelligent systems 2nd Edition by Michael Negnevitsky, Addison Wesley		
Number of Assignment(s)		(Filled in by assignment instructor only)		
	Grading Policy	 ♦ Attendance: % ♦ Mark of Usual: 50.0 % ♦ Midter ♦ Final Exam: % ♦ Other < course project > :40.0 % 	m Exam: 10.0 %	

Note	 This syllabus may be uploaded at the website of the Course Syllabus Management System at <u>https://info.ais.tku.edu.tw/csp</u> or through the link of the Course Syllabus Upload posted on the home page of the TKU Office of Academic Affairs <u>http://www.acad.tku.edu.tw/CS/main.php</u>
	According to the Implementation regulations of distance education for junior college and above are prescribed pursuant to Article 2, "The distance learning course referred to in these Measures refers to more than one-half of the teaching hours in each subject."
	3. According to the regulations of Tamkang University Enforcement Rules for digital teaching, Paragraph 2 and Article 3, the distance learning course of our school must be "The course of digital teaching with distance learning platform or synchronous video system in our school. Teaching Hours include course lectures, teacher-student interaction discussions, quizzes and other learning activities."
	4. If there are any temporary course changes (including time changes and classroom changes of distance learning courses, blended courses), please make out an application according to regulations to the Office of Academic Affairs.
	Wunauthorized photocopying is illegal. Using original textbooks is advised. It is a crime to improperly photocopy others' publications.

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