Tamkang University Academic Year 109, 1st Semester Course Syllabus

Course Title	INTRODUCTION TO ARTIFICIAL INTELLIGENCE AND EXPERT SYSTEMS	Instructor	CHEN, DUEN-KAI				
Course Class	TQICB3A DIVISION OF SOFTWARE ENGINEERING, DEPARTMENT OF INNOVATIVE INFORMATION	Details	◆ General Course◆ Selective◆ One Semester				
PROGRAM), 3A _{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	l perspective. (ratio:10.00)						
2. Informa	tion literacy. (ratio:60.00)						
3. A vision	for the future. (ratio:10.00)						
5. Indeper	ndent thinking. (ratio:10.00)						
7. A spirit	of teamwork and dedication. (ratio:10.00)						
This class aims to provide an introduction to efforts from a wide range of artificial intelligence researches, including symbolic approaches, such as Expert Systems, as well as numerical approaches, such as artificial neural networks and genetic algorithms. This course will also touch the social impact of AI. Introduction							

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						
	provide intro intelligence r		Cognitive						
	The correspondences of teaching objectives: core competences, essential virtues, teaching methods, and assessment								
No.	Core Competences		Essential Virtues	Teaching Methods	Assessment				
1	. E		12357	Lecture, Discussion, Practicum	Discussion(including classroom and online), Practicum, Report(including oral and written), Activity Participation				
				Course Schedule					
Week	Date		Cor	Note					
1	109/09/14 ~ 109/09/20	Overview of this course							
2	109/09/21 ~ 109/09/27	Uses and Limitations. Introduction to AI applications.							
3	109/09/28 ~ 109/10/04	Introduction to AI applications.							
4	109/10/05 ~ 109/10/11	Brief H	Brief History of Artificial Intelligence						
5	109/10/12 ~ 109/10/18	Brief History of Artificial Intelligence							
6	109/10/19 ~ 109/10/25	Social impact of AI							
7	109/10/26 ~ 109/11/01	Term project proposal presentation							
8	109/11/02 ~ 109/11/08	Search Methodologies and Game Playing							
9	109/11/09 ~ 109/11/15	Search Methodologies and Game Playing							
10	109/11/16 ~ 109/11/22	Midterm Exam Week							

11	109/11/23 ~	Expert systems and Rule-based systems			
	109/11/29				
12 109/11/30~ 109/12/06		Expert systems and Rule-based systems			
13	109/12/07 ~ 109/12/13	Expert systems and Rule-based systems			
14	109/12/14 ~ 109/12/20	Introduction to Machine Learning			
15	109/12/21 ~ 109/12/27	Introduction to Machine Learning			
16	109/12/28 ~ 110/01/03	Introduction to Machine Learning			
17	110/01/04 ~ 110/01/10	Term project presentation			
18	110/01/11 ~ 110/01/17	Final Exam Week			
Requirement		Details of grading policy and how course project works will be announce in the first class. 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。 If a student's class absence reaches one-third of the total class hours (in a semester) for a particular course, the course instructor will notify the Office of Academic Affairs, and the student will not be allowed to take part in the remaining course examinations and will receive a semester grade (for that course) of zero.			
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		<pre>♦ Attendance:</pre>			
	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.			

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