Tamkang University Academic Year 114, 1st Semester Course Syllabus

Course Title	INTRODUCTION TO ARTIFICIAL INTELLIGENCE	Instructor	CHEN, DUEN-KAI
Course Class	TEIDB4A DEPARTMENT OF COMPUTER SCIENCE AND INFORMATION ENGINEERING (ENGLISH-TAUGHT PROGRAM), 4A	Details	General CourseSelectiveOne Semester2 Credits
Relevance to SDGs	SDG4 Quality education SDG9 Industry, Innovation, and Infrastructure		

Departmental Aim of Education

- I . Comprehend professional knowledge.
- $\ensuremath{\mathbb{I}}$. Acquire mastery of Practical Skills.
- Ⅲ. Establish creative achievement.

Subject Departmental core competences

- A. Programming and application ability.(ratio:10.00)
- B. Mathematical reasoning ability.(ratio:30.00)
- C. Implementing 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 global 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)

	Course croduction	intellig	ence research, with a fo	ntroduction to efforts from a wide range of ocus on fundamental machine learning co s course will also touch on the social impa	ncepts to		
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					
	Introduce eff to students.	fforts from a wide range of artificial intelligence research Cognitive					
	The correspondences of teaching objectives : core competences, essential virtues, teaching methods, and assessment						
No.	Core Compe	tences	Essential Virtues	Teaching Methods	Assessment		
1	ABCDE		12345678	Lecture, Discussion, Practicum, Experience	Study Assignments, Discussion(including classroom and online), Practicum, Report(including oral and written), Activity Participation		
				Course Schedule			
Week	Date		Cou	irse Contents	Note		
1	114/09/15 ~ 114/09/21	Overview of this course					
2	114/09/22 ~ 114/09/28	Introduction to AI applications.					
3	114/09/29 ~ 114/10/05	AI Uses and Limitations.					
4	114/10/06 ~ 114/10/12	Brief History of Artificial Intelligence					

5	114/10/13 ~	Brief History of Artificial Intelligence		
	114/10/19	brief History of Artificial Intelligence		
6	114/10/20 ~ 114/10/26	Social impact of AI		
7	114/10/27 ~ 114/11/02	Social impact of AI		
8	114/11/03 ~ 114/11/09	Search Methodologies and Game Playing		
9	114/11/10 ~ 114/11/16	Midterm Exam/Midterm Assessment Week (teachers can adjust the week as needed)		
10	114/11/17 ~ 114/11/23	Introduction to Machine Learning		
11	114/11/24 ~ 114/11/30	Introduction to Machine Learning		
12	114/12/01 ~ 114/12/07	Introduction to Machine Learning		
13	114/12/08 ~ 114/12/14	4/12/08 ~ Generative AI		
14	114/12/15 ~ 114/12/21	Generative AI		
15	114/12/22 ~ 114/12/28	Generative AI		
16	114/12/29 ~ 115/01/04	Final Week of Diverse Assessments		
17	115/01/05 ~ 115/01/11	Final Week of Diverse Assessments/Flexible Teaching Week for Teachers		
18	115/01/12 ~ 115/01/18	Flexible Teaching Week for Teachers		
Key capabilities		self-directed learning International mobility Information Technology		
Interdisciplinary		In addition to teaching content of the teacher's professional field, integrate other subjects or invite experts and scholars in other fields to share knowledge or teaching		
Distinctive teaching		Project implementation course		
Course Content		Logical Thinking AI application		
Requirement		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		

Textbooks and Teaching Materials	Self-made teaching materials:Presentations, Videos, Worksheets Using teaching materials from other writers:Presentations, Videos
References	Artificial Intelligence: a guide to intelligent systems 2nd Edition by Michael Negnevitsky, Addison Wesley
Grading Policy	 Attendance: %
Note	This syllabus may be uploaded at the website of Course Syllabus Management System at https://web2.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 . **"Adhere to the concept of intellectual property rights" and "Do not illegally photocopy, download, or distribute." Using original textbooks is advised. It is a crime to improperly photocopy others' publications.

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