

Tamkang University Academic Year 111, 1st Semester Course Syllabus

Course Title	AI AND PROGRAMMING LANGUAGE	Instructor	FENG-CHENG CHANG
Course Class	TEIDB1A DEPARTMENT OF COMPUTER SCIENCE AND INFORMATION ENGINEERING (ENGLISH-TAUGHT PROGRAM), 1A	Details	<ul style="list-style-type: none"> ◆ General Course ◆ Required ◆ One Semester
Relevance to SDGs	SDG4 Quality education		
D e p a r t m e n t a l A i m o f E d u c a t i o n			
<p>I. Develop students' basic literacy of information technology.</p> <p>II. Establish students' ability to apply information technology.</p> <p>III. Build students' information ethics.</p> <p>IV. Train students' reflections on information-related issues.</p>			
Subject Schoolwide essential virtues			
<ol style="list-style-type: none"> 1. A global perspective. (ratio:10.00) 2. Information literacy. (ratio:30.00) 3. A vision for the future. (ratio:10.00) 4. Moral integrity. (ratio:20.00) 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) 			

Course Introduction	<p>This is a general education course that provides a quick glance of the emerging AI-based solutions and issues. To deliver an AI-based solution, fundamental programming skills should also be equipped. As a computer science student, we will learn the solid programming skills in the other courses. You may consider the programming sessions in this course a baseline that a non-CS student would know about for entering the AI discipline.</p>
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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
1	Concepts of AI	Cognitive
2	Preliminary Programming	Cognitive
3	Knows major AI issues	Cognitive

The correspondences of teaching objectives : core competences, essential virtues, teaching methods, and assessment

No.	Core Competences	Essential Virtues	Teaching Methods	Assessment
1		1234	Lecture	Testing, Discussion(including classroom and online)
2		23568	Lecture, Discussion	Testing, Study Assignments, Discussion(including classroom and online), Activity Participation
3		1234567	Discussion	Discussion(including classroom and online), Report(including oral and written), Activity Participation

Course Schedule			
Week	Date	Course Contents	Note
1	111/09/05 ~ 111/09/11	Course Introduction	
2	111/09/12 ~ 111/09/18	Concepts of AI Technologies	
3	111/09/19 ~ 111/09/25	Concepts of Programming (1): Representations	
4	111/09/26 ~ 111/10/02	Concepts of Programming (2): Visual Approach	Scratch
5	111/10/03 ~ 111/10/09	Concepts of Programming (3): Textual Approach	Python
6	111/10/10 ~ 111/10/16	Concepts of Programming (4): Python and AI	
7	111/10/17 ~ 111/10/23	Presentations (1): Uses and Issues of AI	
8	111/10/24 ~ 111/10/30	Presentations (2): Uses and Issues of AI	
9	111/10/31 ~ 111/11/06	Submission: Reflection Sheet	
10	111/11/07 ~ 111/11/13	Midterm Exam Week	
11	111/11/14 ~ 111/11/20	--	
12	111/11/21 ~ 111/11/27	--	
13	111/11/28 ~ 111/12/04	--	
14	111/12/05 ~ 111/12/11	--	
15	111/12/12 ~ 111/12/18	--	
16	111/12/19 ~ 111/12/25	--	
17	111/12/26 ~ 112/01/01	--	
18	112/01/02 ~ 112/01/08	Final Exam Week	
Requirement			
Teaching Facility		Computer	
Textbooks and Teaching Materials		We will mainly use online resources as the teaching materials.	
References			

Number of Assignment(s)	4 (Filled in by assignment instructor only)
Grading Policy	◆ Attendance : 50.0 % ◆ Mark of Usual : 50.0 % ◆ Midterm Exam : % ◆ Final Exam : % ◆ Other () : %
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.