Tamkang University Academic Year 112, 1st Semester Course Syllabus

Course Title	AI AND PROGRAMMING LANGUAGE	Instructor	TRAN, HUU KHOA
Course Class	TLMXB1A DEPARTMENT OF INFORMATION MANAGEMENT, 1A	Details	◆ General Course ◆ Required ◆ One Semester
Relevance to SDGs	SDG4 Quality education		

Departmental Aim of Education

Ⅰ. Develop students' basic literacy of information technology.

Ⅱ. Establish students' ability to apply information technology.

Ⅲ. Build students' information ethics.

Ⅳ. Train students' reflections on information-related issues.

Subject Schoolwide essential virtues

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	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 of literature, concepts, principle and applications to specific fields should also be equipped via the coding examples.

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	Guiding students AI applications with diverse examples so that they can apply what they have learned in their live and work	Psychomotor
3	Keeping abreast of the developments and applications of AI	Affective

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

No.	Core Competences	Essential Virtues	Teaching Methods	Assessment
1		123456	Lecture, Discussion, Practicum	Report(including oral and written)
2		12345678	Lecture, Discussion, Practicum	Report(including oral and written)
3		12345678	Lecture, Discussion, Practicum	Practicum, Report(including oral and written)

Course Schedule			
Week	Date	Course Contents	Note
1	112/09/11 ~ 112/09/17	Course introduction	

2	112/09/18~112/09/24	Fundamentals of AI	
3	112/09/25~112/10/01	AI in applications	
4	112/10/02~112/10/08	AI in applications	
5	112/10/09~112/10/15	AI with Scratch	
6	112/10/16~112/10/22	AI with Scratch	
7	112/10/23~112/10/29	Presentation	
8	112/10/30~112/11/05	Presentation	
9	112/11/06~112/11/12	Presentation	
10	112/11/13~112/11/19		
11	112/11/20~112/11/26		
12	112/11/27~112/12/03		
13	112/12/04~112/12/10		
14	112/12/11~112/12/17		
15	112/12/18~112/12/24		
16	112/12/25~112/12/31		
17	113/01/01~113/01/07		
18	113/01/08~113/01/14		

Key capabilities	self-directed learning Interdisciplinary
Interdisciplinary	STEAM course (S:Science, T:Technology, E:Engineering, M:Math, A field:Integration of Art and Humanist)
Distinctive teaching	Game-based learning courses

Course Content	AI application
Requirement	
Textbooks and Teaching Materials	Self-made teaching materials:Handouts Using teaching materials from other writers:Handouts
References	
Grading Policy	◆ Attendance： 40.0 % ◆ Mark of Usual： % ◆ Midterm Exam： % ◆ Final Exam： % ◆ Other〈Presentation〉：60.0 %
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.**