Tamkang University Academic Year 111, 1st Semester Course Syllabus

Course Title	AI AND PROGRAMMING LANGUAGE	Instructor	
Course Class	TRBXB1A DEPARTMENT OF INTERNATIONAL TOURISM MANAGEMENT (ENGLISH-TAUGHT PROGRAM), 1A	Details	◆ General Course ◆ Required ◆ One Semester
Relevance to SDGs	SDG9 Industry, Innovation, and Infrastructure		

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	Introduction to the concept and applications of Artificial Intelligence, and use Scratch to develop basic applications such as data analysis and deep learning.

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	Allow students to gain basic knowledge on logics and a brief introduction to the programming scene.	Cognitive

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

No.	Core Competences	Essential Virtues	Teaching Methods	Assessment
1		12345678	Lecture, Discussion, Practicum	Testing, Discussion(including classroom and online), Report(including oral and written)

Course Schedule

Week	Date	Course Contents	Note
1	111/09/05 ~ 111/09/11	Introduction to AI	
2	111/09/12 ~ 111/09/18	Introduction to Machine Learning and Deep Learning	
3	111/09/19 ~ 111/09/25	Scratch 3.0 environment setup and animation design	
4	111/09/26 ~ 111/10/02	Game design, characters and cloning	

5	111/10/03~ 111/10/09	Path finding, obstacle prevention, illustration	
6	111/10/10~ 111/10/16	Soundtrack creation	
7	111/10/17~ 111/10/23	Input interface and text processing	
8	111/10/24~ 111/10/30	ML using Scratch 3.0	
9	111/10/31~ 111/11/06	Introduction to AI(For Batch 2 only)	For Batch 2 only
10	111/11/07~ 111/11/13	Midterm Exam Week	
11	111/11/14~ 111/11/20	Introduction to Machine Learning and Deep Learning(For Batch 2 only)	For Batch 2 only
12	111/11/21~ 111/11/27	Scratch 3.0 environment setup and animation design(For Batch 2 only)	For Batch 2 only
13	111/11/28~ 111/12/04	Game design, characters and cloning(For Batch 2 only)	For Batch 2 only
14	111/12/05~ 111/12/11	Path finding, obstacle prevention, illustration(For Batch 2 only)	For Batch 2 only
15	111/12/12~ 111/12/18	Soundtrack creation(For Batch 2 only)	For Batch 2 only
16	111/12/19~ 111/12/25	Input interface and text processing(For Batch 2 only)	For Batch 2 only
17	111/12/26~ 112/01/01	ML using Scratch 3.0(For Batch 2 only)	For Batch 2 only
18	112/01/02~ 112/01/08	Final Exam Week	For Batch 2 only

Requirement	
Teaching Facility	Computer, Projector
Textbooks and Teaching Materials	
References	
Number of Assignment(s)	(Filled in by assignment instructor only)
Grading Policy	◆ Attendance： % ◆ Mark of Usual：30.0 % ◆ Midterm Exam： % ◆ Final Exam： % ◆ Other〈Exam(35%)+Final(35%)〉：70.0 %

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 .
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