

## Tamkang University Academic Year 111, 1st Semester Course Syllabus

Course Title	AI AND PROGRAMMING LANGUAGE	Instructor	
Course Class	TRJXB1A DEPARTMENT OF GLOBAL POLITICS AND ECONOMICS (ENGLISH-TAUGHT PROGRAM), 1A	Details	<ul style="list-style-type: none"> <li>◆ General Course</li> <li>◆ Required</li> <li>◆ One Semester</li> </ul>
Relevance to SDGs	SDG8 Decent work and economic growth SDG9 Industry, Innovation, and Infrastructure		
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			
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	<p>This course provides an introductory survey of Artificial Intelligence and related programming methods. This course will provide basic insight and approach of artificial intelligence on real world. The basic courses on programming will be taught with the computer software abilities as well. The students will need to complete tasks based on the teaching to improve critical thinking as well.</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	To understand how to approach in terms of AI and machine learning	Cognitive
2	To understand how Python (through software) is used and manipulation of basic codes.	Cognitive
3	To practice basic tasks with assignments based on own thinking as well.	Cognitive

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

No.	Core Competences	Essential Virtues	Teaching Methods	Assessment
1		123	Lecture	Discussion(including classroom and online)
2		456	Discussion	Discussion(including classroom and online)
3		78	Experience	Practicum

**Course Schedule**

Week	Date	Course Contents	Note
1	111/09/05 ~ 111/09/11	none	
2	111/09/12 ~ 111/09/18	none	

3	111/09/19 ~ 111/09/25	none	
4	111/09/26 ~ 111/10/02	none	
5	111/10/03 ~ 111/10/09	none	
6	111/10/10 ~ 111/10/16	none	
7	111/10/17 ~ 111/10/23	none	
8	111/10/24 ~ 111/10/30	none	
9	111/10/31 ~ 111/11/06	none	
10	111/11/07 ~ 111/11/13	Midterm Exam Week	
11	111/11/14 ~ 111/11/20	Basic theory explanations of main concepts in AI	
12	111/11/21 ~ 111/11/27	Python programming 101	
13	111/11/28 ~ 111/12/04	Computer Programming – if else , while statements	
14	111/12/05 ~ 111/12/11	Computer Programming – Other useful statements and practice	
15	111/12/12 ~ 111/12/18	Computer Programming – Linear regression basics	
16	111/12/19 ~ 111/12/25	Computer Programming – Linear regression basics	
17	111/12/26 ~ 112/01/01	Practice on programming skills	
18	112/01/02 ~ 112/01/08	Final Exam Week	
Requirement			
Teaching Facility	Computer, Projector		
Textbooks and Teaching Materials	Python Crash Course, 2nd edition by Eric Matthes. The links and video guide will be provided in class and in iclass		
References			
Number of Assignment(s)	(Filled in by assignment instructor only)		
Grading Policy	◆ Attendance : 20.0 %   ◆ Mark of Usual :   %   ◆ Midterm Exam :   % ◆ Final Exam : 30.0 % ◆ Other (assignments) : 50.0 %		

Note	<p>This syllabus may be uploaded at the website of Course Syllabus Management System at <a href="http://info.ais.tku.edu.tw/csp">http://info.ais.tku.edu.tw/csp</a> or through the link of Course Syllabus Upload posted on the home page of TKU Office of Academic Affairs at <a href="http://www.acad.tku.edu.tw/CS/main.php">http://www.acad.tku.edu.tw/CS/main.php</a> .</p> <p>※ <b>Unauthorized photocopying is illegal. Using original textbooks is advised. It is a crime to improperly photocopy others' publications.</b></p>
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