Course Title	LOGIC AND PHILOSOPHY	Instructor	LIN, YI-CHUNG
Course Class	TNUVB0B PHILOSOPHY AND RELIGION, 0B	Details	◆ General Course ◆ Required ◆ One Semester ◆ 2 Credits
Relevance to SDGs	SDG3 Good health and well-being for people SDG4 Quality education		

Departmental Aim of Education

Ⅰ. To build basic understanding of Philosophy and Religion.

Ⅱ. To cultivate ability of deliberation and critical thinking.

Ⅲ. To develop in-depth reflection on moral judgment and decision of action.

Subject Schoolwide essential virtues

1. A global perspective. (ratio:5.00)

2. Information literacy. (ratio:25.00)

3. A vision for the future. (ratio:5.00)

4. Moral integrity. (ratio:25.00)

5. Independent thinking. (ratio:25.00)

6. A cheerful attitude and healthy lifestyle. (ratio:5.00)

7. A spirit of teamwork and dedication. (ratio:5.00)

8. A sense of aesthetic appreciation. (ratio:5.00)

Course Introduction	What is logic? Logic is the study of inference and an important tool, whether deductive or inductive, for expanding knowledge. To obtain correct and useful inferential knowledge, learning logic is the most direct and efficient way! This course will systematically introduce sentential logic, which is the basis for training critical thinking and learning predicate logic, philosophy of science, and philosophy of language.

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	Mastering the basic concepts of logic, using the truth table method to judge the validity of an argument, and using 18 inferential rules to construct inferential steps of a valid argument.	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	Testing, Study Assignments, Activity Participation

Course Schedule

Week	Date	Course Contents	Note
1	115/02/23~ 115/03/01	導論 (INTRODUCTION TO LOGIC)	
2	115/03/02~ 115/03/08	語句邏輯的結構 (THE STRUCTURE OF SENTENTIAL LOGIC)	
3	115/03/09~ 115/03/15	語句邏輯的結構 (THE STRUCTURE OF SENTENTIAL LOGIC)	
4	115/03/16~ 115/03/22	計算真假值 (COMPUTING TRUTH VALUES)	
5	115/03/23~ 115/03/29	以邏輯符號表示英文語句 (SYMBOLIZING ENGLISH SENTENCES)	
6	115/03/30~ 115/04/05	以邏輯符號表示英文語句 (SYMBOLIZING ENGLISH SENTENCES)	
7	115/04/06~ 115/04/12	以真值表法測試有效性 (TRUTH TABLES FOR TESTING VALIDITY)	
8	115/04/13~ 115/04/19	以真值表法測試有效性 (TRUTH TABLES FOR TESTING VALIDITY)	

9	115/04/20~ 115/04/26	Midterm Exam/Midterm Assessment Week (teachers can adjust the week as needed)	
10	115/04/27~ 115/05/03	自然演繹法：8條論規則 (THE PROOF METHOD: EIGHT BASIC INFERENCE RULES)	
11	115/05/04~ 115/05/10	自然演繹法：8條論規則 (THE PROOF METHOD: EIGHT BASIC INFERENCE RULES)	
12	115/05/11~ 115/05/17	10條替換規則 (TEN REPLACEMENT RULES)	
13	115/05/18~ 115/05/24	10條替換規則 (TEN REPLACEMENT RULES)	
14	115/05/25~ 115/05/31	條件證法與間接證法 (CONDITIONAL PROOF AND INDIRECT PROOF)	
15	115/06/01~ 115/06/07	條件證法與間接證法 (CONDITIONAL PROOF AND INDIRECT PROOF)	
16	115/06/08~ 115/06/14	Final Week of Diverse Assessments	
17	115/06/15~ 115/06/21	Final Week of Diverse Assessments/Flexible Teaching Week for Teachers	
18	115/06/22~ 115/06/28	Flexible Teaching Week for Teachers	

Key capabilities	self-directed learning Information Technology Problem solving
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	Logical Thinking Sustainability issue
Requirement	
Textbooks and Teaching Materials	Self-made teaching materials:Presentations, Handouts Using teaching materials from other writers:Textbooks

References	林正弘(1994)邏輯(第八版) 三民書局。
	Klenk, Virginia. (2008). Understanding Symbolic Logic (5th Edition). Prentice Hall.
	Hurley, Patrick J - A concise introduction to logic-Thomson_Wadsworth (2008)
Grading Policy	◆ Attendance： 15.0 %　◆ Mark of Usual： %　◆ Midterm Exam： 30.0 %
	◆ Final Exam： 35.0 %
	◆ Other〈presentation or quiz〉：20.0 %
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.
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