

Tamkang University Academic Year 112, 2nd Semester Course Syllabus

Course Title	TRENDS AND EFFECTS OF INFORMATION TECHNOLOGY ADVANCEMENT	Instructor	HSU HUI-HUANG
Course Class	TGCHB0A HONORS PROGRAM, 0A	Details	<ul style="list-style-type: none"> ◆ General Course ◆ Required ◆ One Semester
Relevance to SDGs	SDG9 Industry, Innovation, and Infrastructure		
Honor program Aim of Education			
<p>Tamkang University's Honors Program is a "Triple Objectives Program" integrating professionalism, general education and extracurricular activities to develop distinguished undergraduate students of the day division. The Honors Program will enable undergraduate students to be professional and innovative with the capacity of independent study and will acquaint them not only with local cultures and global outlook, but also with leadership skills and creative thinking. The Honors Program aims at strengthening undergraduate students' career competitiveness.</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:20.00) 4. Moral integrity. (ratio:10.00) 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 course is designed for students in the honors program. It aims at enhancing students' comprehension on novel information technologies and inspiring them to think and care about the information society issues. The students would need to study assigned articles provided by the instructor beforehand and to participate in class discussions.
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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	Comprehension on novel information technologies	Cognitive
2	Capability on IT applications	Cognitive
3	Information ethics	Cognitive
4	Independent thinking on information related issues	Cognitive

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

No.	Core Competences	Essential Virtues	Teaching Methods	Assessment
1		12345	Lecture, Discussion	Discussion(including classroom and online), Report(including oral and written)
2		12345	Lecture, Discussion	Discussion(including classroom and online), Report(including oral and written)
3		12345678	Lecture, Discussion	Discussion(including classroom and online), Report(including oral and written)

4		12345678	Lecture, Discussion	Discussion(including classroom and online), Report(including oral and written)
Course Schedule				
Week	Date	Course Contents		Note
1	113/02/19 ~ 113/02/25	Introduction		
2	113/02/26 ~ 113/03/03	Artificial Intelligence		
3	113/03/04 ~ 113/03/10	Artificial Intelligence		
4	113/03/11 ~ 113/03/17	Artificial Intelligence		
5	113/03/18 ~ 113/03/24	Large Language Models		
6	113/03/25 ~ 113/03/31	Cybersecurity and Privacy		
7	113/04/01 ~ 113/04/07	National holiday, No class		
8	113/04/08 ~ 113/04/14	Cybersecurity and Privacy		
9	113/04/15 ~ 113/04/21	Cloud Computing		
10	113/04/22 ~ 113/04/28	Big Data and Data Science		
11	113/04/29 ~ 113/05/05	Big Data and Data Science		
12	113/05/06 ~ 113/05/12	Blockchain and Cryptocurrency		
13	113/05/13 ~ 113/05/19	Blockchain and Cryptocurrency		
14	113/05/20 ~ 113/05/26	Metaverse		
15	113/05/27 ~ 113/06/02	Metaverse		
16	113/06/03 ~ 113/06/09	Student Oral Presentation		
17	113/06/10 ~ 113/06/16	Student Oral Presentation		
18	113/06/17 ~ 113/06/23	Flex week, learning activities should be arranged.		
Key capabilities		self-directed learning Information Technology Interdisciplinary		
Interdisciplinary		STEAM course (S:Science, T:Technology, E:Engineering, M:Math, A field:Integration of Art and Humanist) Competency-based education 'competency exploration' sustained competency or global issues STEEP (Society, Technology, Economy, Environment, and Politics)		

Distinctive teaching	
Course Content	AI application
Requirement	English speaking and writing capabilities Midterm exam: A 2-page report Final exam: A 8 to 10-minute Oral presentation with PPT
Textbooks and Teaching Materials	Self-made teaching materials:Presentations, Handouts Using teaching materials from other writers:Articles from WIRED
References	
Grading Policy	◆ Attendance : 10.0 % ◆ Mark of Usual : % ◆ Midterm Exam : 25.0 % ◆ Final Exam : 25.0 % ◆ Other 〈Class Participation〉 : 40.0 %
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.