Tamkang University Academic Year 108, 1st Semester Course Syllabus

Course Title	GLOBAL ROBOT INDUSTRY TREND ANALYSIS AND PRACTICUM	Instructor	FU-YUEN HSIAO			
Course Class	TNUZB0A GLOBAL TECHNOLOGY REVOLUTION, 0A	Details	 General Course Required One Semester 			
Academic Aim of Education						
Students will understand recent development of modern science and technology and its impact on human society and global environment. Through the design of course students will also be familiar with broadly-based fundamental technical knowledge and improve.						
Subject Schoolwide essential virtues						
1. A globa	1. A global perspective. (ratio:70.00)					
2. Informa	tion literacy. (ratio:10.00)					
3. A vision	3. A vision for the future. (ratio:20.00)					
Course Introduction	To roughly understand the development of robots and robot Hopefully students will combine their specialty and knowledg further applications.	tic industries. ge from this co	ourse for			
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. 						
Teaching Objectives objective methods						

1	To roughly u	nderstan	Cognitive						
	knowledge from this course for further applications.								
The correspondences of teaching objectives : core competences, essential virtues, teaching methods, and assessment									
No.	Core Competences		Essential Virtues	Teaching Methods	Assessment				
1			123	Lecture	Testing, Activity Participation				
	Course Schedule								
Week	Date		Course Contents		Note				
1	108/09/09 ~ 108/09/15	Syllabu	Syllabus						
2	108/09/16~ 108/09/22	History	History of Robot Development						
3	108/09/23~ 108/09/29	Introdu	Introduction to Robots						
4	108/09/30~ 108/10/06	Introdu	Introduction to Artificial Intelligence (AI)						
5	108/10/07 ~ 108/10/13	Introdu	Introduction to Natural Language Processing (NLP)						
6	108/10/14~ 108/10/20	Introdu	Introduction to Image Processing and Computer Vision						
7	108/10/21~ 108/10/27	Sensor	Sensors and Actuators						
8	108/10/28~ 108/11/03	Domes	Domestic Robots						
9	108/11/04 ~ 108/11/10	Autono	Autonomous Car						
10	108/11/11~ 108/11/17	Midter	Midterm Exam Week						
11	108/11/18~ 108/11/24	Unmar	Unmanned Aerial Vehicles (Drones)						
12	108/11/25~ 108/12/01	Visit of	Visit of Robot and UAV Laboratories						
13	108/12/02 ~ 108/12/08	Robots	Robots and Culture Impact (I)						
14	108/12/09~ 108/12/15	Robots	Robots and Culture Impact (II)						
15	108/12/16~ 108/12/22	Should	Should Machine Think?						
16	108/12/23 ~ 108/12/29	Curren	Current State of AI						
17	108/12/30~ 109/01/05	Future of the Robots							
18	109/01/06~ 109/01/12	Final Ex	Final Exam Week (Date:109/1/3-109/1/9)						

Requirement					
Teaching Facility	Computer, Projector				
Textbooks and Teaching Materials	In-class videos, handouts, and slides.				
References					
Number of Assignment(s)	(Filled in by assignment instructor only)				
Grading Policy	 ♦ Attendance: 30.0 % ♦ Mark of Usual: % ♦ Midterm Exam: 35.0 % ♦ Other < >: % 				
Note	This syllabus may be uploaded at the website of Course Syllabus Management System at <u>http://info.ais.tku.edu.tw/csp</u> or through the link of Course Syllabus Upload posted on the home page of TKU Office of Academic Affairs at <u>http://www.acad.tku.edu.tw/CS/main.php</u> . ** Unauthorized photocopying is illegal. Using original textbooks is advised. It is a crime to improperly photocopy others' publications.				

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