Tamkang University Academic Year 106, 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		 Required One Semester 2 Credits 					
	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.								
Schoolwide essential virtues								
A. A global perspective.								
B. Informat	B. Information literacy.							
C. A vision	for the future.							
D. Moral in	tegrity.							
E. Indepen	dent thinking.							
F. A cheerf	ul attitude and healthy lifestyle.							
G. A spirit o	of teamwork and dedication.							
H. A sense	of aesthetic appreciation.							
To roughly understand the development of robots and robotic industries. Hopefully students will combine their specialty and knowledge from this course for further applications. Course Introduction								

 The Relevance among Teaching Objectives, Objective Levels and Schoolwide essential virtues Objective Levels (select applicable ones): Cognitive Domain : C1-Remembering, C2-Understanding, C3-Applying, C4-Analyzing, C5-Evaluating, C6-Creating Psychomotor Domain : P1-Imitation, P2-Mechanism, P3-Independent Operation, P4-Linked Operation, P5-Automation, P6-Origination Affective Domain : A1-Receiving, A2-Responding, A3-Valuing, A4-Organizing, A5-Charaterizing, A6-Implementing II. The Relevance among Teaching Objectives, Objective Levels and Schoolwide essential virtues : Determine the objective level(s) in any one of the three learning domains (cognitive, psychomotor, and affective) corresponding to the teaching objective. Each objective should correspond to the objective level(s) of ONLY ONE of the three domains. If more than one objective levels are applicable for each learning domain, select the highest one only. (For example, if the objective levels for Cognitive Domain include C3,C5, and C6, select C6 only and fill it in the boxes below. The same rule applies to Psychomotor Domain and Affective Domain.) 								
	(For example, if one objective corresponds to three Schoolwide essential virtues: A,AD, and BEF, list all of the three in the box.)							
					Relevance			
No.	Teaching Obj		iectives	Objective Levels	Schoolwide essential virtues			
1	To roughly ur industries. Ho	nderstand the development of ro pefully students will combine th	bots and robotic eir specialty and	C3	ABC			
	knowledge fr	om this course for further applica	ations.					
		Teaching Objecti	ves, Teaching Methods and Assessme	ent				
No.	Те	aching Objectives	Teaching Methods	Assessment				
1	To roughly ur development industries. Ho combine thei knowledge fr further applic	nderstand the of robots and robotic opefully students will r specialty and om this course for rations.	Lecture, Appreciation, Simulation, Visit	Written test, Participation				
Course Schedule								
Weel	Week Date Sub		ject/Topics	Note				
1	106/09/18~ 106/09/24	Syllabus						
2	2 106/09/25~ 106/10/01 History of Robot Development							
3	3 106/10/02~ 106/10/08 Introduction to Robots							
4	4 106/10/09~ 106/10/15 Introduction to Artificial Intelligence (jence (AI)					
5	106/10/16~ 106/10/22	Introduction to Natural Langua	ge Processing (NLP)					

6	106/10/23~ 106/10/29	Introduction to Image Processing and Computer Vision					
7	106/10/30~ 106/11/05	Sensors and Actuators					
8	106/11/06~ 106/11/12	Domestic Robots					
9	106/11/13~ 106/11/19	Autonomous Car					
10	106/11/20~ 106/11/26	Midterm Exam Week					
11	106/11/27 ~ 106/12/03	Unmanned Aerial Vehicles (Drones)					
12	106/12/04 ~ 106/12/10	Visit of Robot and UAV Laboratories					
13	106/12/11~ 106/12/17	Robots and Culture Impact (I)					
14	106/12/18~ 106/12/24	Robots and Culture Impact (II)					
15	106/12/25 ~ 106/12/31	Should Machine Think?					
16	107/01/01~ 107/01/07	Current State of AI					
17	107/01/08~ 107/01/14	Future of the Robots					
18	107/01/15~ 107/01/21	Final Exam Week					
Re	Requirement						
Teaching Facility		Computer, Projector					
Textbook(s)		In-class videos, handouts, and slides.					
Re	Reference(s)						
Number of Assignment(s)		(Filled in by assignment instructor only)					
Grading Policy		 Attendance: 30.0 % ◆ Mark of Usual: % ◆ Midterm Exam: 35.0 % Final Exam: 35.0 % Other ⟨ ⟩: % 					
	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 Note 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.						
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