Tamkang University Academic Year 113, 2nd Semester Course Syllabus

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Course Title	EVOLUTION OF TECHNOLOGIES	Instructor	CHIA-CHI HUANG			
Course Class	TNUZB0B GLOBAL TECHNOLOGY REVOLUTION, 0B	Details	General CourseRequiredOne Semester2 Credits			
Relevance to SDGs	SDG4 Quality education SDG5 Gender equality					
	Departmental Aim of Educ	ation				
impact on h	I understand recent development of modern science and techn uman society and global environment. Through the design of co liar with broadly-based fundamental technical knowledge and i	ourse student	s will			
	Subject Schoolwide essential virtues					
1. A globa	perspective. (ratio:20.00)					
2. Informa	tion literacy. (ratio:10.00)					
3. A vision	for the future. (ratio:20.00)					
4. Moral ir	ntegrity. (ratio:10.00)					
5. Indeper	ndent thinking. (ratio:10.00)					
6. A cheer	ful attitude and healthy lifestyle. (ratio:10.00)					
7. A spirit o	of teamwork and dedication. (ratio:10.00)					
8. A sense	of aesthetic appreciation. (ratio:10.00)					
Course Introduction	We will focus on the revolution of chemistry, especially on Bi Generative AI this semester. All students will have two person and one AI homework in the class. We hope everyone can leak knowledge and have scientific cognition from this course.	nal oral preser	ntations			

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.			objective methods			
	We hope eve	-	Cognitive			
	The c	correspond	lences of teaching objectives	: : core competences, essential virtues, teaching me	thods, and assessment	
No.	Core Competences		Essential Virtues	Teaching Methods	Assessment	
1	1		12345678	Lecture, Experience, Oral	Report(including oral and written), Activity Participation	
				Course Schedule		
Week	Date		Cou	rse Contents	Note	
1	114/02/17 ~ 114/02/23	Introduction				
2	114/02/24 ~ 114/03/02	Chemical Education				
3	114/03/03 ~ 114/03/09	Applied Bio Materials (I)				
4	114/03/10 ~ 114/03/16	Applied Bio Materials (II)				
5	114/03/17 ~ 114/03/23	Applied Nano Materials (I)				
6	114/03/24 ~ 114/03/30	Applied Nano Materials (II)				
7	114/03/31 ~ 114/04/06	Teaching administration observation period				
8	114/04/07 ~ 114/04/13	Midterm Exam - Oral Presentation				
9	114/04/14 ~ 114/04/20	Midterm Exam - Oral Presentation				
10	114/04/21 ~ 114/04/27	Midterm Exam - Oral Presentation				
11	114/04/28 ~ 114/05/04	Applied Energy Materials (I)				
12	114/05/05 ~ 114/05/11	Applied Energy Materials (II)				

13	114/05/12 ~ 114/05/18	Applied Artificial Intelligence (AI)		
14	114/05/19 ~ 114/05/25	Generative AI for Chemical Posters	Homework	
15	114/05/26 ~ 114/06/01	Final Exam - Oral Presentation		
16	114/06/02 ~ 114/06/08	Final Exam - Oral Presentation		
17	114/06/09 ~ 114/06/15	Final Exam - Oral Presentation		
18	114/06/16 ~ 114/06/22	AI supremacy: The artificial intelligence battle between China, USA and Europe in the virtual Classroom		
Key capabilities		self-directed learning Information Technology Social Participation		
Interdisciplinary		STEAM course (S:Science, T:Technology, E:Engineering, M:Math, A field:Integration of Art and Humanist)		
Distinctive teaching		Learning technologies (such as AR/VR,etc.) incorporated to physical courses AI		
Course Content		Logical Thinking Green Energy AI application		
Requirement		The participants should have the responsibility for the personal oral presentation in two exams in time.		
Textbooks and Teaching Materials		Using teaching materials from other writers:Textbooks, Videos, Journals		
R	eferences			
Grading Policy		 ◆ Attendance: 30.0 % ◆ Mark of Usual: % ◆ Midterm Exam: 30.0 % ◆ Final Exam: 30.0 % ◆ Other 〈Homework〉: 10.0 % 		

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 .
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