Tamkang University Academic Year 113, 1st Semester Course Syllabus

Course Title	Course Title (I)		HSIAO-TSU WANG			
Course Class	Course Class BACHELOR'S PROGRAM IN ADVANCED MATERIALS SCIENCE, 3A		 General Course Required One Semester 2 Credits 			
Relevance to SDGs	SDG9 Industry, Innovation, and Infrastructure					
	Departmental Aim of Education					
I. Enrich	the fundamental knowledge of advanced material sciences.					
Π. Empha	size the ability of self-expression.					
III. Strengt	then the ability to experiment and team spirit.					
IV. Develo	p an international perspective and international exchanges.					
Subject Departmental core competences						
 A. Possess a fundamental knowledge of mathematics, physics, chemistry and biology. (ratio:50.00) B. Cultivate professional knowledge, experimental skills and the applications of nano, optoelectronic, biomedical and macromolecular materials.(ratio:50.00) 						
Subject Schoolwide essential virtues						
1. A global perspective. (ratio:10.00)						
2. Informa	2. Information literacy. (ratio:20.00)					
3. A vision for the future. (ratio:5.00)						
4. Moral integrity. (ratio:5.00)						
5. Independent thinking. (ratio:20.00)						
6. A cheerful attitude and healthy lifestyle. (ratio:5.00)						
7. A spirit of teamwork and dedication. (ratio:30.00)						
8. A sense of aesthetic appreciation. (ratio:5.00)						

In	Course troduction	structu	re,chemical/physical cha	ow understanding the surface aracter, and its technology. The lecture us to illustrate the specific method and	ses the
	The	correspo		ourse's instructional objectives and the dynamic objectives.	cognitive, affective,
Differentiate the various objective methods among the cognitive, affective and psychomotor domains of the course's instructional objectives.					tor
 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	To introduce the properties in the optical, electrical, and atomic for Cognitive the character identification of materials				
	The	correspond	lences of teaching objectives	: core competences, essential virtues, teaching me	thods, and assessment
No.	Core Compe	tences	Essential Virtues	Teaching Methods	Assessment
1	AB		12345678	Lecture, Practicum	Testing, Practicum
				Course Schedule	
Wee	< Date		Cour	rse Contents	Note
1	113/09/09~ 113/09/15	Introduction			
2	113/09/16~ 113/09/22	Atomic structure-I			
3	113/09/23 ~ 113/09/29	Atomic structure-II			
4	113/09/30 ~ 113/10/06	Atomic structure-III			
5	113/10/07 ~ 113/10/13	Lattice and crystal structure-I			
6	113/10/14 ~ 113/10/20	Lattice and crystal structure-II			

7	113/10/21~ 113/10/27	Lattice and crystal structure-III	
8	113/10/28~ 113/11/03	exam-mid	
9 ^{113/11/04} ~ 113/11/10		Raman spectrum (theory and application)	
10	113/11/11~ 113/11/17	Instrument operations-I	
11	113/11/18~ 113/11/24	Instrument operations-II(C130)	
12	113/11/25 ~ 113/12/01	Operation exam-I (C130)	
13	113/12/02 ~ 113/12/08	Operation exam-II (C130)	
14	113/12/09~ 113/12/15	Operation exam-III (C130)	
15	113/12/16~ 113/12/22	X-ray diffration-I	
16	113/12/23 ~ 113/12/29	X-ray diffration-II	
17	113/12/30~ 114/01/05	Holiday	
18	114/01/06~ 114/01/12	exam-final	
Кеу	v capabilities		
Interdisciplinary			
Distinctive teaching			
Course Content		Logical Thinking	
Requirement			
Textbooks and Teaching Materials		Self-made teaching materials:Presentations, Handouts	

References					
Grading Policy	 ♦ Attendance: 10.0 % ♦ Mark of Usual: % ♦ Midterm Exam: 30.0 % ♦ Other ⟨Operation⟩: 30.0 % 				
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 Note home page of TKU Office of Academic Affairs at http://www.acad.tku.edu.tw/CS/main.php . X Unauthorized photocopying is illegal. Using original textbooks is advised. It is a crime to improperly photocopy others' publications.				
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