Tamkang University Academic Year 114, 1st Semester Course Syllabus

Course Title	SEMINAR (I)	Instructor	HSIU-FU HSU
Course Class	TSCXM1A MASTER'S PROGRAM, DEPARTMENT OF CHEMISTRY, 1A	Details	◆ General Course ◆ Selective ◆ One Semester ◆ 2 Credits
Relevance to SDGs	SDG4 Quality education SDG7 Affordable and clean energy SDG9 Industry, Innovation, and Infrastructure		

Departmental Aim of Education

Ⅰ. Cultivate the advanced professional knowledge and experimental techniques.

Ⅱ. Cultivate the capacity of practical implementation.

Ⅲ. Cultivate professional ethics and lifelong learning.

Subject Departmental core competences

A. Possess advanced knowledge in chemistry such as organic, physical, inorganic, and instrumental analysis, and extend them into biochemistry, material chemistry, and related chemistry.(ratio:30.00)

B. Possess basic experimental chemistry techniques and apply them to other chemistry-related experimental works.(ratio:20.00)

C. Possess basic research ability and seminar participation in chemistry-related projects, and independently finish writing the research paper.(ratio:10.00)

D. Possess the professional ethics in chemistry workplace.(ratio:10.00)

E. Possess collecting and analyzing information in chemistry and apply them to solve chemistry problems.(ratio:30.00)

Subject Schoolwide essential virtues

1. A global perspective. (ratio:10.00)
2. Information literacy. (ratio:10.00)
3. A vision for the future. (ratio:15.00)
4. Moral integrity. (ratio:15.00)
5. Independent thinking. (ratio:10.00)
6. A cheerful attitude and healthy lifestyle. (ratio:10.00)
7. A spirit of teamwork and dedication. (ratio:10.00)

8. A sense of aesthetic appreciation. (ratio:20.00)

Course Introduction	Each student will prepare and give a 40-min presentation in English on a recent publication in chemistry journal.

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	training on oral presentation of chemistry in English	Cognitive
2	discussion (Q & A)	Affective

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

No.	Core Competences	Essential Virtues	Teaching Methods	Assessment
1	ABCDE	12345678	Lecture, Discussion, Practicum, Experience	Discussion(including classroom and online), Practicum, Report(including oral and written), Activity Participation
2	ABCDE	12345678	Lecture, Discussion, Practicum	Discussion(including classroom and online), Practicum, Activity Participation

Course Schedule

Week	Date	Course Contents	Note
1	114/09/15 ~ 114/09/21	Introduction	

2	114/09/22 ~ 114/09/28	Lecture on PowerPoint and Oral PresentationPreparations	
3	114/09/29 ~ 114/10/05	Oral Presentation by a Student	
4	114/10/06 ~ 114/10/12	Oral Presentation by a Student	
5	114/10/13 ~ 114/10/19	Oral Presentation by a Student	
6	114/10/20 ~ 114/10/26	Oral Presentation by a Student	
7	114/10/27 ~ 114/11/02	Oral Presentation by a Student	
8	114/11/03 ~ 114/11/09	Oral Presentation by a Student	
9	114/11/10 ~ 114/11/16	Oral Presentation by a Student	
10	114/11/17 ~ 114/11/23	Oral Presentation by a Student	
11	114/11/24 ~ 114/11/30	Oral Presentation by a Student	
12	114/12/01 ~ 114/12/07	Oral Presentation by a Student	
13	114/12/08 ~ 114/12/14	Oral Presentation by a Student	
14	114/12/15 ~ 114/12/21	Oral Presentation by a Student	
15	114/12/22 ~ 114/12/28	Discussion	
16	114/12/29 ~ 115/01/04	Discussion	
17	115/01/05 ~ 115/01/11	Discussion	
18	115/01/12 ~ 115/01/18	Conclusion	

Key capabilities	self-directed learning Information Technology Social Participation 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) In addition to teaching content of the teacher's professional field, integrate other subjects or invite experts and scholars in other fields to share knowledge or teaching
Distinctive teaching	Project implementation course

Course Content	Logical Thinking Environmental Safety Green Energy
Requirement	
Textbooks and Teaching Materials	Self-made teaching materials:Presentations
References	
Grading Policy	◆ Attendance： 30.0 % ◆ Mark of Usual：70.0 % ◆ Midterm Exam： % ◆ Final Exam： % ◆ Other〈 〉： %
Note	This syllabus may be uploaded at the website of Course Syllabus Management System at https://web2.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. ※"Adhere to the concept of intellectual property rights" and "Do not illegally photocopy, download, or distribute." Using original textbooks is advised. It is a crime to improperly photocopy others' publications.