Tamkang University Academic Year 113, 2nd Semester Course Syllabus

Course Title	SEMINAR (II)	Instructor	WANG, BO-CHENG
Course Class	TSCXM1A MASTER'S PROGRAM, DEPARTMENT OF CHEMISTRY, 1A	Details	◆ General Course ◆ Selective ◆ One Semester ◆ 2 Credits
Relevance to SDGs	SDG2 Zero hunger SDG3 Good health and well-being for people SDG4 Quality education SDG7 Affordable and clean energy		

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:10.00)

B. Possess basic experimental chemistry techniques and apply them to other chemistry-related experimental works.(ratio:30.00)

C. Possess basic research ability and seminar participation in chemistry-related projects, and independently finish writing the research paper.(ratio:30.00)

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:20.00)

Subject Schoolwide essential virtues

1. A global perspective. (ratio:10.00)

2. Information literacy. (ratio:5.00)

3. A vision for the future. (ratio:15.00)

4. Moral integrity. (ratio:5.00)

5. Independent thinking. (ratio:15.00)

6. A cheerful attitude and healthy lifestyle. (ratio:15.00)

7. A spirit of teamwork and dedication. (ratio:20.00)

8. A sense of aesthetic appreciation. (ratio:15.00)

Course Introduction	The students taking this couse have been asked to give at least 40 min presentation about current chemistry trend traning their presentation skill.

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	traning presentation and research skill in chemistry	Affective
2	discussion	Cognitive

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, Practicum	Discussion(including classroom and online), Activity Participation
2	ABCDE	12345678	Discussion, Experience	Study Assignments, Practicum

Course Schedule

Week	Date	Course Contents	Note
1	114/02/17 ~ 114/02/23	Seminar 1 (intraduction)	
2	114/02/24 ~ 114/03/02	Seminar 2 (student presentation)	
3	114/03/03 ~ 114/03/09	Seminar 3 (student presentation)	

4	114/03/10 ~ 114/03/16	Seminar 4 (student presentation)	
5	114/03/17 ~ 114/03/23	Seminar 5 (student presentation)	
6	114/03/24 ~ 114/03/30	Seminar 6 (student presentation)	
7	114/03/31 ~ 114/04/06	Seminar 7 (student presentation)	
8	114/04/07 ~ 114/04/13	Seminar 8 (student presentation)	
9	114/04/14 ~ 114/04/20	Seminar 9 (student presentation)	
10	114/04/21 ~ 114/04/27	Seminar 10 (student presentation)	
11	114/04/28 ~ 114/05/04	Seminar 11 (student presentation)	
12	114/05/05 ~ 114/05/11	Seminar 12 (student presentation)	
13	114/05/12 ~ 114/05/18	Seminar 13 (student presentation)	
14	114/05/19 ~ 114/05/25	Seminar 14 (student presentation)	
15	114/05/26 ~ 114/06/01	Seminar 15 (student presentation)	
16	114/06/02 ~ 114/06/08	Seminar 16 (student discussion)	
17	114/06/09 ~ 114/06/15	Seminar 17 (student discussion)	
18	114/06/16 ~ 114/06/22	Seminar 18 (Conclusion)	

Key capabilities	self-directed learning Information Technology Problem solving
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	USR curriculum Game-based learning courses Project implementation course
Course Content	Intellectual Property (learning intellectual property) Environmental Safety Green Energy

Requirement	
Textbooks and Teaching Materials	Self-made teaching materials:Textbooks, Presentations Using teaching materials from other writers:Presentations
References	
Grading Policy	◆ Attendance： 50.0 % ◆ Mark of Usual：50.0 % ◆ Midterm Exam： % ◆ Final Exam： % ◆ Other〈 〉： %
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 . **※ Unauthorized photocopying is illegal. Using original textbooks is advised. It is a crime to improperly photocopy others' publications.**