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②國玄東華大學

教學計劃表 Syllabus

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課程名稱(中文) Course Name in Chinese	無機化學(二)			學年/學期 Academic Year/Se	學年/學期 Academic Year/Semester		
課程名稱(英文) Course Name in English	Inorganic Chemistry(II)						
科目代碼 Course Code	СНЕМ30900	系級 Department 學三 & Year		開課單位 Course-Offering Department	化學系		
修別 Type	學程 Program	學分數/時間 Credit(s)/Hour(s)		3.0/3.0			
授課教師 Instructor	/劉鎮維						
先修課程 Prerequisite							
that the Course Description							

課程描述 Course Description

The subjects will cover both Coordination chemistry and Organometallics in spring semester.

課程目標 Course Objectives

配合週期表,藉由原子結構、分子之鏈結與結構,探討無機化合物之特性及化學 反應之動力及反應機構。

	系專業能力 Basic Learning Outcomes	課程目標與系專業能 力相關性 Correlation between Course Objectives and Dept.'s Education Objectives
A	具備化學基礎知識	•
В	具備獨立思考及分析解決問題之能	•
С	具備化學專業知	•
D	具備執行化學實驗之能力	0
Е	具備國際視野與外語能力	0

圖示說明Illustration : ● 高度相關 Highly correlated ○中度相關 Moderately correlated

授課進度表 Teaching Schedule & Content

週次Week		備註Remarks	
1	Introduction		no classes on 2024/02/20
2	Ch. 10 (H)	Hydrogen	make-up classes on 2024/02/28
3	Ch. 19 (H, M)	d-Block metal chemistry: general considerations	
4	Ch. 20 (H, M)	d-Block metal chemistry: coordination complexes	
5	Ch. 20 (H, M)	d-Block metal chemistry: coordination complexes	
6	Ch. 26 (H, M)	d-Block metal complexes: reaction mechanism	

7	Ch. 21 (H)	d-Block metal chemistry: the first row metals					
8	Ch. 22 (H) d-Block metal chemistry: the heavier metals no class on 2024/04						
9	期中考試週 Midte:	rm Exam					
	Mid-term examination on 2024/04/16 (50%)						
10	Ch. 2 (N) Basic Concepts Relating to Organometallic Complexes						
11	Ch. 3 (N) Bonds in Organometallic Complexes						
12	Ch. 4 (N) Carbonyl, Olefin, and Phosphine Complexes						
13	Ch. 5 (N)	Carbene Complexes					
14	Ch. 6 (N)	Basic Reactions of Organometallic Complexes					
15	Ch. 7 (N)	Catalysis by Organometallic Complexes					
16	Ch. 28 (H) Inorganic materials and nanotechnology						
17	Final examination	n on 2024/06/11 (50%)					
18	literature studi	es					
		教學策略 Teaching Strategies					
✓ 課堂講	授 Lecture	分組討論Group Discussion	Field Trip				
其他Mis	scellaneous:						
		教學創新自評Teaching Self-Evaluation					
創新教學(Innovative Teachi	ng)					
問題導向學習(PBL) ■ 團體合作學習(TBL) ■ 解決導向學習(SBL)							
翻轉教室 Flipped Classroom							
社會責任(Social Responsibility)							
在地實踐Community Practice							
跨域合作(Transdisciplinary Projects)							
■ 跨界教學Transdisciplinary Teaching ■ 跨院系教學Inter-collegiate Teaching							
業師合授 Courses Co-taught with Industry Practitioners							
其它 other:							

學期成績計算及多元評量方式 Grading & Assessments									
配分項目	多元評量方式 Assessments								
Items	配分比例 Percentage	測驗 會考	實作 觀察	口頭 發表	專題 研究	創作 展演	卷宗 評量	證照 檢定	其他
平時成績 General Performance	0%								
期中考成績 Midterm Exam	50%								
期末考成績 Final Exam	50%								
作業成績 Homework and/or Assignments	0%								
其他 Miscellaneous ()	0%								

評量方式補充說明

Grading & Assessments Supplemental instructions

教科書與參考書目(書名、作者、書局、代理商、說明)

Textbook & Other References (Title, Author, Publisher, Agents, Remarks, etc.)

Textbook: Inorganic Chemistry, 5th edition by Catherine E. Housecroft & Alan G. Sharpe; Inorganic Chemistry, 5th edition by Gary L. Miessler, Paul J. Fischer, Donald A. Tarr; Organometallic Chemistry, Edited by Hiroshi Nakazawa and Julian Koe (Royal Society of Chemistry)

課程教材網址(含線上教學資訊,教師個人網址請列位於本校內之網址)

Teaching Aids & Teacher's Website(Including online teaching information.

Personal website can be listed here.)

其他補充說明(Supplemental instructions)