

## 106 學年第 1 學期 分子光譜 Molecular Spectroscopy 課程綱要

課程名稱：（中文）分子光譜		開課單位	分子碩			
（英文）Molecular Spectroscopy		永久課號	IAC5636			
授課教師：平松弘嗣						
學分數	3	必/選修	選修	開課年級	*	
先修科目或先備能力：						
<p>The course is designed for graduate students who have knowledge of introductory level of physical chemistry and quantum chemistry. It is helpful for students who have an experience to use spectroscopic apparatus in their own research activities.</p>						
課程概述與目標：						
<p>Necessity is getting larger for understanding fundamental principles of the spectroscopic analysis used therein due to development and improvement of spectroscopic apparatuses for the chemical analyses. This course covers the basic principles of an interaction between light and molecules, and its applications to instrumental analyses. Students will learn the fundamental theories of the spectroscopic analysis.</p>						
教科書（請註明書名、作者、出版社、出版年等資訊）						
課程大綱		分配時數				備註
單元主題	內容綱要	講授	示範	習作	其他	
教學要點概述：						
1.學期作業、考試、評量						
Attendance (40%), Mid-term Exam (30%), Term-end exam (30%)						
2.教學方法及教學相關配合事項(如助教、網站或圖書及資料庫等)						
師生晤談	排定時間		地點	連絡方式		
	By appointment (preferred) or walk-in		SB220	E-mail: hiramatu@nctu.edu.tw		
每週進度表						
週次	上課日期	課程進度、內容、主題				
1	9/13	Introduction				
2	9/20	Property of light Property of molecules				

3	9/27	Property of light Property of molecules
4	10/4	no class
5	10/11	Absorption and scattering
6	10/18	Absorption and scattering
7	10/25	no class
8	11/1	Absorption and scattering
9	11/8	Mid-term exam
10	11/15	Fluorescence
11	11/22	Fluorescence
12	11/29	Fluorescence
13	12/6	Vibrational Spectroscopy
14	12/13	Vibrational Spectroscopy
15	12/20	Vibrational spectroscopy
16	12/27	Circular dichroism
17	1/3	Magnetic resonance
18	1/10	End-term exam

※ 請同學遵守智慧財產權觀念及勿使用不法影印教科書。

備註：

1. 其他欄包含參訪、專題演講等活動。
2. 請同學遵守智慧財產權觀念及勿使用不法影印教科書。

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