



課 綱 Course Outline  
資訊工程學系國際組

中文課程名稱 Course Name in Chinese	物件導向式軟體工程				
英文課程名稱 Course Name in English	Object-Oriented Software Engineering				
科目代碼 Course Code	CSIEM0260	班 別 Degree	學士班 Bachelor' s		
修別 Type	學程 Program	學分數 Credit(s)	3.0	時 數 Hour(s)	3.0
先修課程 Prerequisite					
課程目標 Course Objectives					
探討物件導向式軟體系統之理論，設計與實現					
系教育目標 Dept.' s Education Objectives					
1	具備學科知識，養成專業技能 Acquire academic knowledge, develop professional skills				
2	學習創新思考，分析解決問題 Inspire innovative thinking, increase analytical problem solving ability				
3	培養團隊精神，學習溝通合作 Promote teamwork spirit, encourage coordination and cooperatio				
4	提昇專業倫理，承擔社會責任 Sublimate professional ethics, engage social responsibility				
5	涵育人文素養，開拓國際視野 Cultivate humanities, broaden global perspectives				
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	資訊專業終身學習能力 Profound professional knowledge and skills				
B	實驗驗證資訊科學能力 Sound and free spirit; simple and generous quality				
C	資訊工具整合運用能力 Ability to appreciate beauty and think creatively				

D	資訊系統應用設計開發能力 Sense of democracy, the rule of law, and civil responsibility	
E	團隊合作溝通協調能力 Ability of communication, teamwork, and social practice	
F	資通訊科技問題解決能力 Possess both domestic and global perspectives	
G	瞭解資訊科技多元影響能力 Knowledgeable and possess the quality of humanism	
H	肩負資訊人社會責任能力 Ability of verbal expression and information organization and application	

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

課程大綱  
Course Outline

\*object-oriented concepts  
 \*object-oriented programming languages  
 \*object-oriented analysis (OOA)  
 \*object-oriented design(OOD)  
 \*object-oriented software engineering methodologies For example:  
 --Shlaer  
 --Mellor method  
 --Rumbaugh method  
 --Martin-Odell method  
 --Coad/Yourdon method  
 \*object-oriented programming  
 \*system analysis and design

資源需求評估 (師資專長之聘任、儀器設備的配合 . . . 等)  
 Resources Required (e.g. qualifications and expertise, instrument and equipment, etc.)

工作站/ PC 網路, 物件導向式程式語言(如 C++), 物件導向式輔助設計軟體(如 SES/objectbench)

課程要求和教學方式之建議  
 Course Requirements and Suggested Teaching Methods

介紹各家之長, 評析各家之優缺點。選擇語言或輔助設計軟體, 實際進行物件導向式分析與設計, 並在電腦上實現。

其他  
 Miscellaneous