



課 綱 Course Outline
資訊工程學系資工組

中文課程名稱 Course Name in Chinese	影像處理導論				
英文課程名稱 Course Name in English	Introduction to Image Processing				
科目代碼 Course Code	CSIE30700	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	無				
課程目標 Course Objectives					
引導學生進入影像處理這個領域，培養影像處理的知識與技能。 To lead students into the field of image processing and cultivate the knowledge and skills of image processing					
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 cooperation				
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 Ability of lifetime learning in information profession			●	
B	實驗驗證資訊科學能力 Ability of validate experimental result validation in information science field			○	

C	資訊工具整合運用能力 Ability of integrated applications of information technology	●
D	資訊系統應用設計開發能力 Ability of information application system design and development	●
E	團隊合作溝通協調能力 Ability of teamwork, communication, and coordination	○
F	資通訊科技問題解決能力 Ability of problem solving regarding information and communication technology	○
G	瞭解資訊科技多元影響能力 Ability to understand information technology' s multiple influences	●
H	肩負資訊人社會責任能力 Ability of bearing the social responsibilities being among information professionals	○

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

課程大綱 Course Outline

- (一) 影像處理基礎理論。Basic theory of image processing
- (二) 影像處理技術探討。Discussion on image processing technology
- (三) 影像處理應用範疇。Application scope of image processing

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.)

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

教學以講授及討論為主，並輔以專題研究、口頭報告及論文評析等。英文能力、影像處理法則、及程式設計三者將是教學要求重點。

Teaching is mainly lectured and discussed, supplemented by thematic research, oral presentations and article reviews. English proficiency, image processing theories, and programming will be the focus of teaching requirements.

其他 Miscellaneous