

[重新查詢](#)[友善列印](#)**0982學期 課程基本資料**

系所 / 年級	資工系碩士班 1年級	課號 / 班別	65M00138 / A
學分數	3學分	選 / 必修	選修
科目中文名稱	Multimedia Information Compression	科目英文名稱	Multimedia Information Compression
主要授課老師	施國琛	開課期間	一學年之下學期
人數上限	20 人	已選人數	8人

**起始週 / 結束週 / 上課地點 / 上課時間**

第1週 / 第18週 / H213 / 星期2第07節  
第1週 / 第18週 / H213 / 星期2第08節  
第1週 / 第18週 / H213 / 星期2第09節

請各位同學遵守智慧財產權觀念；請勿非法影印。

**教學綱要**

一、教學目標(Objective)	Multimedia has become an indispensable part of modern computer technology. In this course, students will be introduced to principles and current technologies of multimedia system design and gain hands-on experience in this area. Lecture topics include fundamental concepts of digital image and video, as well as practical solutions to multimedia applications. Special research topics on image and video processes will be discussed.
二、先修科目(Pre Course)	Knowledge of Programming
三、教材內容(Outline)	Overview of Multimedia Technologies Introduction to Multimedia Multimedia Authoring and Tools Multimedia Data Representations Graphics and Image Data Representations Color in Image and Video Fundamental Concepts in Video Multimedia Data Compression Lossless Compression Algorithms Lossy Compression Algorithms Image Compression Standards Basic Video Compression Techniques MPEG Video Coding (Optional) MPEG-1 and MPEG-2 MPEG-4, MPEG-7 and Beyond Image/Video Enhancement and Restoration (Optional) Image/Video Analysis (Optional) Applications of Image and Video Processing (Research Issues) Image Inpainting Video Inpainting 3-D Surface Inpainting Video Forgery and Special Effect Production
四、教學方式(Teaching Method)	
五、參考書目(Reference)	Fundamentals of Multimedia, Li and Drew, Prentice-Hall, 2004
六、教學進度(Syllabi)	
七、評量方	Project and Project Presentation Paper Presentation Assessment (Optional)

八、講義位  
址(<http://>)

九、教育目標

重新查詢

課程查系統 Viewable With Any Browser & 1024 x 768 Resolution

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