

國立屏東大學 111學年度第1學期 教學課程綱要

※為保護智慧財產權，請勿非法影印教科書。

課程學分數：3.00(3.00小時)

授課老師：王隆仁(227001)

必選修：選

開課序號	0705
科目名稱	多媒體通訊(BFBZ060)
科目英文名稱	Multimedia Communication
授課語言	英語/全外語授課
主要教學型態	課堂教學
教學目標	The goal of this course is to discuss multimedia communication technologies including: (1) research topics for multimedia data compression and compression standards, (2) lossless compression and lossy coding issues for multimedia communication networks.
每週課程內容及教學方法	The content of the course is as follow: We introduce the research topics for multimedia data compression and compression standards, including the image compression schemes as JPEG, EZW, SPIHT, and JPEG2000, the audio coding and the video coding algorithms as H.261, H.264, and the various MPEG standards. (1) Introduction (2) Lossless Compression (Math) (3) Huffman Coding (4) Arithmetic Coding (5) Dictionary Techniques (6) Lossy Coding (Math) (7) Transform Coding (8) Video Coding (9) Computer and Multimedia Networks (10) Multimedia Network Communications and Applications (11) Multimedia Over Wireless and Mobile Networks
核心能力	
預期學習成果	
與預期學習成果搭配的多元評量	Midterm exam 25% Final exam 25% Assignments 25% Class participation 25%
主要讀本	1. Introduction to Data Compression (by Khalid Sayood) 2. Fundamentals of Multimedia (by Ze-Nian Li, Mark S Drew)
參考書目	Website : http://ljwang.nptu.edu.tw

其他事項

1. Students need to have the relevant information basic disciplines and programming capabilities.
2. 課程聯絡群組網址 <http://line.me/ti/g/EvD5XM1tdV>