朝陽科技大學 099學年度第2學期教學大綱
Introduction to GIS and Remote Sensing 地理資訊系統與遙感探測概論

當期課號	1524	Course Number	1524
授課教師	黃怡碩	Instructor	HUANG,YI SHUO
中文課名	地理資訊系統與遙感探測概論	Course Name	Introduction to GIS and Remote Sensing
開課單位	營建工程系(四日)四A	Department	
修習別	選修	Required/Elective	Elective
學分數	2	Credits	2
課程目標	本課主要內容在介紹地理資訊系統與遙感探測概論。首先認識網格式與向量式資料之差異與優劣點，再者學習處理衛星影像(如分類，邊界增揚，變化偵測等)，以現代遙感探測技術配合地理資訊系統應用在地球環境改變觀察上。此外，及全球衛星定位系統及其他相關數位技術也將簡單地介	Objectives	Introduce students the basic concept of remote sensing techniques and Geographic information system (GIS). Raster and vector data first are learned. Then, using GIS operations on satellite images and digital data, some image processes, such as classification, edge enhancement, filtering, and difference detection, can help monitor the changes of our environment. Other related technologies are also introduced such as photogrammertry and global positioning system (GPS).
教材	Samet- Applications of Spatial Data Structure Robinson & etc.- Elements of Cartography Gonzalea - Digital Image Processing	Teaching Materials	amet- Applications of Spatial Data Structure Robinson & etc.- Elements of Cartography Gonzalea - Digital Image Processing
成績評量方式	期中考 35% 作業 35% 期末計劃 30%	Grading	Midterm Examination -35% Homework-35% Final Project 30%
教師網頁			
教學內容	明白空間資訊系統,空間資料結構與衛星影像分析	Syllabus	Understanding spatial data structure spatial information system satellite image processing princilpes

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