

**朝陽科技大學 091學年度第1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**

<b>當期課號</b>	6019	<b>Course Number</b>	6019
<b>授課教師</b>	黃怡碩	<b>Instructor</b>	HUANG,YI SHUO
<b>中文課名</b>	地理資訊系統與遙感探測概論	<b>Course Name</b>	Introduction to GIS and Remote Sensing
<b>開課單位</b>	營建工程系(二進)四A	<b>Department</b>	
<b>修習別</b>	選修	<b>Required/Elective</b>	Elective
<b>學分數</b>	2	<b>Credits</b>	2
<b>課程目標</b>	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，邊界增強，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	<b>Objectives</b>	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 photogrammetry and global positioning system (GPS).
<b>教材</b>	Oral Presentation	<b>Teaching Materials</b>	
<b>成績評量方式</b>	Midterm Examination -15 % Homework-35% Final Project 50%	<b>Grading</b>	
<b>教師網頁</b>	-		
<b>教學內容</b>	Understanding spatial data structure spatial information system satellite image processing principles	<b>Syllabus</b>	

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