

**朝陽科技大學 097學年度第2學期教學大綱**  
**Gis a Application in Construction 地理資訊系統於營建工程上之應用**

<b>當期課號</b>	7142	<b>Course Number</b>	7142
<b>授課教師</b>	黃怡碩	<b>Instructor</b>	HUANG,YI SHUO
<b>中文課名</b>	地理資訊系統於營建工程上之應用	<b>Course Name</b>	Gis a Application in Construction
<b>開課單位</b>	營建工程系碩士班二A	<b>Department</b>	
<b>修習別</b>	選修	<b>Required/Elective</b>	Elective
<b>學分數</b>	3	<b>Credits</b>	3
<b>課程目標</b>	隨著電腦科技的進步，資料的管理可藉由地理資訊系統（GIS）的輔助，以提供有效率的資料儲存與分析，而其結果可以被呈現在地圖上，並配合各項因子的地理分佈特性，亦或提昇為二（或三）度空間與時間的連續動畫，以做空間資料分析與工程設計。主要內容包括地理資訊系統概述、各	<b>Objectives</b>	Geographic Information System (GIS) is a powerful computerized tool for saving, analyzing, and presenting data. GIS can also be used to show data in two or three dimensions which presents the connection between data and geographic information at various time steps. Moreover, digital remote sensing data are suitable for use in a numerical simulation model. In this course, how to apply GIS to construction engineering is the main course core.
<b>教材</b>	Samet- Applications of Spatial Data Structure Robinson & etc.- Elements of Cartography Gonzalea - Digital Image Processing	<b>Teaching Materials</b>	
<b>成績評量方式</b>	期中考 35% 作業 35% 期末計劃 30%	<b>Grading</b>	Midterm Examination -35% Homework-35% Final Project 30%
<b>教師網頁</b>	-		
<b>教學內容</b>	明白空間資訊系統,空間資料結構與衛星影像分析	<b>Syllabus</b>	Understanding spatial data structure spatial information system satellite image processing principlpes

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