朝陽科技大學 099學年度第1學期教學大綱
Hydrology 水文學

當期課號	1733	Course Number	1733
授課教師	莊順興	Instructor	CHUANG,SHUN HSING
中文課名	水文學	Course Name	Hydrology
開課單位	環境工程與管理系(四日)三A	Department	
修習別	選修	Required/Elective	Elective
學分數	3	Credits	3
課程目標	介紹水文圈、水文循環，並討論相關影響之大氣氣象學。其中水文循環除一般探討之表面水尚包括暴雨逕流、地下水，主要內容爲特性、調查分析、頻率及洪水量預估及水文相關運用。	Objectives	Detailed study of the hydrologic cycle including precipitation, precipitation losses, and rainfall/runoff processes. Concepts relating to streamflow, urban drainage, river and reservoir routing, hydrologic measurement, subsurface flow, and water quality are also addressed. Unit hydrograph theory, watershed modeling, and analysis and design of drainage structures.
教材	1.應用水文學(上、下冊)，王如意、易任，茂昌圖書公司 2.水文學，李光敦，五南圖書公司 3.Introduction to Hydrology (fourth edition), Viessman and Lewis, Harper Collins College Publishers, 1996. 3.Hydrology for engineers, Linsley et. al., McGraw-Hill, 1988. 4.應用水文學，徐義人，大中國圖書公司	Teaching Materials	1.應用水文學(上、下冊)，王如意、易任，茂昌圖書公司 2.水文學，李光敦，五南圖書公司 3.Introduction to Hydrology (fourth edition), Viessman and Lewis, Harper Collins College Publishers, 1996. 3.Hydrology for engineers, Linsley et. al., McGraw-Hill, 1988. 4.應用水文學，徐義人，大中國圖書公司
成績評量方式	1.出席率 20% 2.作業、報告 20% 3.期中考 30% 4.期末考 30%	Grading	1.Class participation 20% 2.Problem assignment 20% 3.Midterm exam. 30% 4.Final exam. 30%
教師網頁			
教學內容	介紹水文圈、水文循環，並討論相關影響之大氣氣象學。其中水文循環除一般探討之表面水尚包括暴雨逕流、地下水，主要內容爲特性、調查分析、頻率及洪水量預估及水文相關運用。	Syllabus	Detailed study of the hydrologic cycle including precipitation, precipitation losses, and rainfall/runoff processes. Concepts relating to streamflow, urban drainage, river and reservoir routing, hydrologic measurement, subsurface flow, and water quality are also addressed. Unit hydrograph theory, watershed modeling and analysis and design of drainage structures.

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