朝陽科技大學 092學年度第1學期教學大綱
Concrete Laboratory 混凝土試驗

當期課號	1041	Course Number	1041
授課教師	鄭家齊	Instructor	CHENG,CHIA CHI
中文課名	混凝土試驗	Course Name	Concrete Laboratory
開課單位	營建工程系(四日)二B	Department	
修習別	必修	Required/Elective	Required
學分數	1	Credits	1
課程目標	使學生了解混凝土相關儀器介紹；水泥：比重試驗、凝結試驗、水泥砂漿流度試驗及抗壓試驗；粗細骨材：含水量、比重、面乾飽和水量、篩分析、單位重、含泥量試驗；混凝土：配比設計、坍度試驗、空氣含量、抗壓試驗	Objectives	This course Introduces the basic tests and relating apparatus for cement, aggregates and concrete, which includes specific gravity, setting period, flow ability and strength of cement; water content, specific gravity, sieve analysis of aggregates; mix design, slump, air content, strength of concrete, All the tests are used for quality control of concrete.
教材	實驗教室授課講解一小時，實際操作二小時	Teaching Materials	lecture 1 hour and lab practice 2 hours
成績評量方式	試驗報告 50%, 期末考 30%, 課堂表現 20%	Grading	homework 50%, final exam 30%, class performance 20%
教師網頁	_		
教學內容	混凝土相關儀器介紹；水泥：比重試驗、凝結試驗、水泥砂漿流度試驗及抗壓試驗；粗細骨材：含水量、比重、面乾飽和水量、篩分析、單位重、含泥量試驗；混凝土：配比設計、坍度試驗、空氣含量、抗壓試驗、及硬固混凝土NDT檢驗	Syllabus	1.cement tests 2.fine and coarse aggregate tests 3.concrete mixture design 4.slump test and practice for fresh concrete 5. NDT test

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