朝陽科技大學 097學年度第1學期教學大綱
Concrete Laboratory 混凝土試驗

當期課號	1626	Course Number	1626
授課教師	李明君	Instructor	LEE,MING GIN
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A	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	混凝土材料品質試驗(黃兆龍) Concrete (Young)	Teaching Materials	Concrete Test (Hwang, C. L.) Concrete (Young)
成績評量方式	homework 30%, midterm and final exam 40%, class performance 30%	Grading	homework 30%, midterm and final exam 40%, class performance 30%
教師網頁	_		
教學內容	相關勞工安全衛生教育(營造災害防止與危險通識)，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 design 4.slump test and practice for fresh concrete 5.SCC Concrete 6. NDT test

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