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	1029	Course Number	1029
授課教師	干裕成	Instructor	KAN,YU CHENG
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	每週講解一小時，實驗操作二小時	Teaching Materials	Report for each test and final exam.
成績評量方式	實習報告(50%)、實作測驗(20%)、期末考(20%)、課堂表現(10%)	Grading	Report(50%)、practice(20%)、final exam(20%)、performance(10%)
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、NDT強度試驗	Syllabus	Introduction of methods and equipments for concrete test, including cement (specific gravity , setting test, flow test and compressive test), aggregate (moisture content, specific gravity, SSD moisture, sieve analysis, unit weight, silt content) and concrete (mixture, slump test, air content, compression strength and NDT test)

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