朝陽科技大學 099學年度第2學期教學大綱
Construction Material Test 營建材料試驗

當期課號	1495	Course Number	1495
授課教師	李明君	Instructor	LEE,MING GIN
中文課名	營建材料試驗	Course Name	Construction Material Test
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	讓學生藉由解說與實際操作材料試驗，瞭解重要營建材料，包括模板、支撐、鋼筋鋼材、水泥、粗細骨材、附加劑、混凝土、磚製品、瀝青、瀝青混凝土和土壤試驗，及包括高性能混凝土配比設計實驗。	Objectives	The course covers the properties of the different construction materials which including steel, metal, concrete, timber, brick, asphalt, rock, composite material and so on. The materials lab. provided facilities for instruction in concrete and bituminous
教材	實驗教室授課 講解1小時，實際操作2小時	Teaching Materials	operation, experiment and discussion
成績評量方式	homework and performance 30%, term paper 30%, final exam or paper 40%	Grading	homework and performance 30%, term paper 30%, final exam or paper 40%
教師網頁			
教學內容	讓學生藉由解說與實際操作材料試驗，瞭解重要營建材料，包括碳纖維補強工法與檢驗、鋼筋鋼材、水泥、粗細骨材、附加劑、混凝土、磚製品、瀝青、瀝青混凝土和土壤試驗，及包括高性能混凝土配比設計實驗與硬固混凝土NDT檢驗。	Syllabus	High Performance Concrete (HPC) Self-Compacting Concrete (SCC) Pull-out test, Compressive test, tension test and durability test NDT and CFRP Take Core test and Steel tension test Asphalt Concrete Mix Design and Asphalt Concrete Recycle test

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