國立台灣科技大學 114學年 第2學期　課程大綱

Spring 2026 NTUST Course Outline

授課教師：李隆盛

Instructor:Lung Sheng Li

課程名稱：混凝土品質控制

Course Title：Quality Control of Concrete

2026/11/3

課程代號：CT3608301 Course Code 學分數：3 Credits	必選修：必修/半學年 Required/Electve:Required/Half Yr. 先修課程： Prerequisites
節次教室：R10(IB-306) T1(IB-306) T2(IB-306) Time/Location	
專業核心能力： Core Professional Competencies	
課程網址： Course Website	
課程宗旨： Course Objectives	混凝土材料概況，混凝土組成材料之物化性質，混凝土配比設計、混凝土新拌性質、混凝土施工技術、混凝土工程性質量測及品質管制、混凝土耐久性及設計、混凝土工程整體品質保證。 This course provides an overview on concrete technology. The objective of the course is to provide students with the fundamental knowlege of cement and concrete materials. Students will learn the materials properties of cements and concretes, mix design of concretes, practice of concretes, and quality control of concretes.
課程大綱： Outline of Lectures	混凝土材料概況，混凝土組成材料之物化性質，混凝土配比設計、混凝土新拌性質、混凝土施工技術、混凝土工程性質量測及品質管制、混凝土耐久性及設計、混凝土工程整體品質保證。 This course provides an overview on concrete technology. The objective of the course is to provide students with the fundamental knowlege of cement and concrete materials. Students will learn the materials properties of cements and concretes, mix design of concretes, practice of concretes, and quality control of concretes.
授課方式： Method of Instruction	講授 Lecture：0% 分組討論 Group discussion：0% 案例研討 Case study：0% 操做練習 Practical exercises：0% 講授 Lecture：%
教科書： Textbooks	黃兆龍 ，「簡編混凝土性質與行為」， 2005二版，詹氏書局。
參考書目： References	P. Kumar Mehta ,Paulo J. M. Monteiro,” Concrete-Microstructure-Properties-and-Materials”, McGraw-Hill, Third Edition.
修課須知： Notice	
評量方式： Grading	Midterm exam (30%) Final exam (35%) Learning Worksheets (10%) Homework assignments (15%) Attendance, Class Participation: 10%

備註說明：
Notes