# 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：劉泰儀

Instructor:Tai Yi Liu

課程名稱：土木施工學

Course Title：Civil Engineering Construction

2026/11/3

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| 課程代號： CT4701701<br>Course Code<br>學分數： 3<br>Credits | 必選修：選修/半學年<br>Required/Electve:Elective/Half Yr.<br>先修課程：<br>Prerequisites |
| 節次教室：<br>Time/Location | W10(IB-307) WA(IB-307) WB(IB-307) |
| 專業核心能力：<br>Core Professional Competencies | 1. 具有運用數學、物理、化學及工程管理等知識，和自我學習之能力。an ability to apply knowledge of physics, chemistry, calculus, engineering mathematics, engineering statistics, and engineering project management to civil and construction engineering;<br>2. 具有管理與執行工程實務以及使用現代化科技之能力。an ability to use techniques and skills to manage or execute engineering projects and to efficiently use modern tools and technologies;<br>3. 具有辨識、分析、歸納及解決工程問題之能力。an ability to identify, to analyze, to formulate, and to solve engineering problems;<br>4. 具有工程法律、工程倫理、敬業精神及社會責任之素養，並能遵循之。an understanding of relationships between engineering and the law; a literacy on engineering ethics, professionalism, and social responsibilities. |
| 課程網址：<br>Course Website | |
| 課程宗旨：<br>Course Objectives | To teach students to understand the construction planning work, construction management principles and practical construction methods.<br>教學生了解施工規劃工作、施工管理原則和實用的施工方法。 |
| 課程大綱：<br>Outline of Lectures | 1. 簡介<br>2. 土方工程<br>3. 基礎和隔牆<br>4. 鋼筋混凝土<br>5. 道路建設<br>6. 橋樑工程<br>7. 隧道工程<br>8. 盾牌隧道<br>9. 管道建設<br>10. 鐵路工程<br>11、裝飾防水工程<br>12. 岩土工程<br>13. 水利工程<br>14. 港口工程。 |
| 授課方式：<br>Method of Instruction | 講授 Lecture：%<br>分組討論 Group discussion：%<br>案例研討 Case study：%<br>操做練習 Practical exercises：% |

講授 Lecture：%

教科書：
Textbooks

參考書目：
References

修課須知：
Notice

評量方式：
Grading

備註說明：
Notes