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：王瑞堂

Instructor:JUI-TANG WANG

課程名稱：混合雲平台技術實習

Course Title：Practicum in Hybrid Cloud Platform

2026/11/3

課程代號：ET2703301 Course Code 學分數：1 Credits	必選修：必修/半學年 Required/Electve:Required/Half Yr. 先修課程： Prerequisites

節次教室：W10(IB-712) W8(IB-712) W9(IB-712)
Time/Location

專業核心能力：
Core Professional Competencies

一、基礎能力
1.使用電腦與網際網路能力
2.系統邏輯思考能力
3.具專題製作及撰寫報告之能力
二、專業核心能力
1.程式設計能力
2.使用系統及元組件之能力
3.系統整合及測試之能力
4.資料串接與處理能力
三、應用能力
1.具熟悉溝通、協調專業知識之要領
2.具專業閱讀與手冊查閱能力
3.了解產業發展概況

課程網址：https://hackmd.io/@Q-Yu/ryFOr_eXbx
Course Website

課程宗旨：
Course Objectives

This course introduces the public cloud AWS platform based on practical orientation:
- Make architectural decisions based on AWS recommended architectural principles and best practices
- Use AWS services to make infrastructure scalable, reliable, and highly available
- Use AWS managed services to make infrastructure more flexible and flexible
- Make AWS-based infrastructure more efficient to improve performance and reduce costs
- Use a well-structured structure with AWS solutions to improve the architecture, to understand the actual operation of the AWS cloud environment, and cultivate the ability of students to transfer experimental reports

課程大綱：
Outline of Lectures

	Introduction of the public cloud AWS platform based on practical orientation. Weekly content: Course opening (Course introduction and study method) Patent introduction - part 1 Patent introduction - part 2 Module 1: Core Knowledge Module 2: Simple Storage Service Students propose and report implementation plans Module 3: EC2 Module 4: Network - VPC Module 5: Database Service Module 6: IAM Module 7: Monitoring Caching Module 8: Serverless Monitoring Assignment 1 - part 1: Create a personal introduction page with AWS EC2 Assignment 1 - part 2: Create a personal introduction page with AWS EC2 Assignment 2 - part 1: Use AWS S3 and AWS SNS to implement alert mechanism Final project
授課方式： Method of Instruction	講授 Lecture：30% 分組討論 Group discussion：20% 案例研討 Case study：10% 操做練習 Practical exercises：40% 講授 Lecture：%
教科書： Textbooks	None
參考書目： References	None
修課須知： Notice	None
評量方式： Grading	Items: a. Q & A: 30% b. Lab: 30% c. Assignments: 40%
備註說明： Notes	This course will talk about the Cloud Foundation and also provide how to build a server on the internet to the students. Basically, we will let you know how to operate this service provided by AWS, and use the services to do some projects. The course is based on the PBL (Problem Based Learning), we hope all of you could enjoy this course and encourage to you raise the questions and interoperating with us. So don’t be afraid to ask questions, just ask and practice your English or Mandarin.