# Civil Service Development Institute

# Taipei Office Digital Interactive Classroom

# Introduction

## 1. Purpose

To promote a learner-centered teaching approach and create a diverse interactive teaching environment, the institute's Taipei office has merged classrooms 404 and 405, transforming them into a digital interactive classroom that can accommodate up to 60 people. To effectively enhance teaching effectiveness with emerging technologies, this classroom integrated the Internet of Things (IoT) technique and is equipped with touchscreen monitors. Featuring a built-in electronic whiteboard, which supports the presentation of diverse forms of instructional materials. Conforming to the spirit of ESG sustainable development and aims to create an environment for active learning.

## 2. Characteristic and Function

### (1.) Characteristic

- Create an active learning environment: The tables and chairs can be adjusted to the desired seating arrangement. Writable surfaces on desks and walls, along with large electronic screens, allow students to engage in creative writing. The screens also feature interactive functionality, facilitating the exchange of ideas among students, and bringing teachers and groups closer together.
- Integrating the Internet of Things (IoT) technique: Refers to a collective network that connects various devices and facilitates communication between devices and the cloud. This classroom has installed touchscreen monitors with built-in electronic screens, which connect to the internet and support features such as USB, enabling diverse forms of instructional materials.
- In line with the trend of Bring Your Own Device (BYOD):

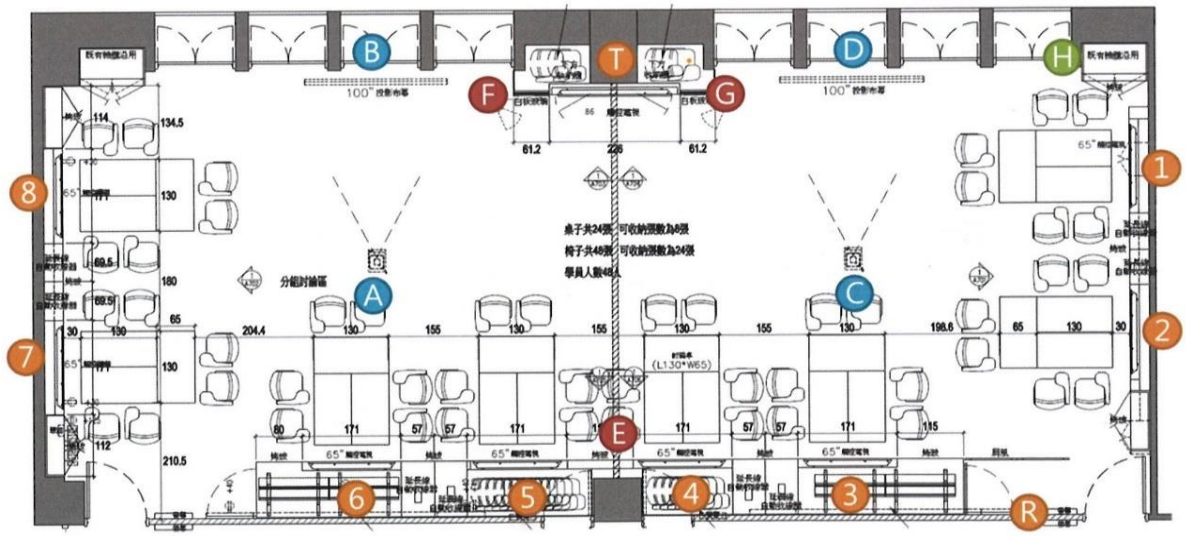
Which encourages students to bring their personal devices to class, including laptops, tablets, and smartphones, the classroom supports wireless projection from these devices, enhancing efficiency in switching.

(2.) Function

- Setting up 9 electronic screens: To replace traditional whiteboards and posters. The screens are interconnected through environmental control, allowing the transmission of content between screens. Additionally, the written content on the electronic screens can be downloaded by scanning a QR code or accessed through USB.
- Distance learning capabilities: Utilizing wireless transmission technology to initiate video distance learning, facilitating the integration of virtual and physical hybrid teaching for online and in-person sessions.
- Installation of wireless projection devices: Meeting BYOD requirements, allowing devices to engage in wireless transmission without delays.
- Instantly product instructional videos: Employing device-tracking cameras and wide-angle cameras in conjunction with a direct recording and steaming system to instantly record lectures, capture participant images, and integrate instructional materials into videos.
- The classroom furniture may adjust to different requirements: To support various teaching scenarios and seating arrangements due to its flexible and movable characteristics.
- Convenient writing space: Writable desktops and lacquered glass walls allow writing with whiteboard markers, fostering creativity and ideation.

3. Device Location

Picture 1. Classroom device location




## 4. Pictures of the Classroom

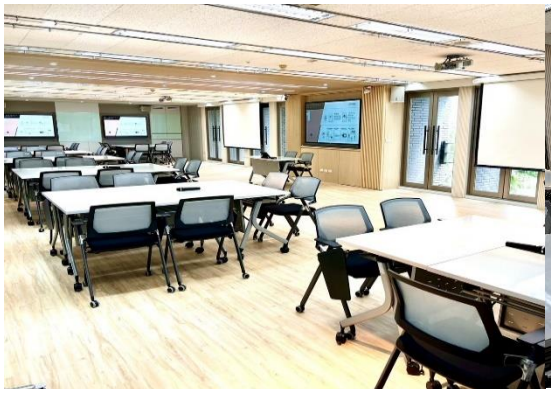
The digital interactive classroom scene, is shown by six directions including the back, front, left side, and right side.

Viewpoint from the lectern to the back.

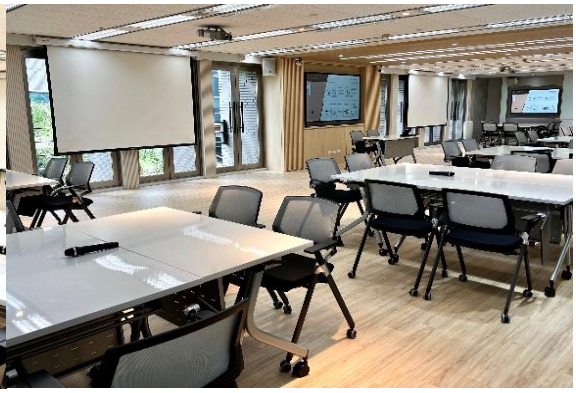
Right in front of the classroom.

Viewpoint from the right to the left side.

Viewpoint from the left to the right side.



Viewpoint from the left door to the classroom.



Viewpoint from the right door to the classroom.