

Alliance for Empowering Smart Future MOOC Courses Enable High School Students to Experience University Courses in Advance

Campus focus

For most high school students, teachers, and parents, how to smoothly connect high school and university learning is a very important issue. With digital technology gradually becoming widespread, this problem has been gradually solved. The “Alliance for Empowering Smart Future—Sustainable and Cultivated Digital Learning” led by Tamkang University recently won 6 awards at the “2024 ELOE Digital Learning International Symposium and Open Education Forum,” . Its MOOC courses phase II, will soon be available on the Ministry of Education’s guided learning course website, offering diverse online learning content that is particularly helpful for high school students to get early exposure to university courses and lay the foundation in related disciplines. Relevant information can be found on the course webpage (website: <https://moocs.moe.edu.tw/moocs/#/home>).

Professor Tzong-Ru Tsai, Dean of Academic Affairs, explained that alliance schools have planned a series of online MOOC courses, using progressively structured teaching content paired with timely assessments to help learners overcome the learning difficulties caused by distance and improve learning outcomes. “The courses are all based on university foundational subjects, with instructors specially arranging the learning from a beginner’s perspective, which is very suitable for high school students’ transitional learning furthermore, a cohesive learning approach is adopted, with each short segment accompanied by tests, not only to confirm the learners’ level of understanding but also to prevent shortcutting, thereby making the course certification more credible.”

Prof. Tsai further pointed out that Tamkang University actively assists high school students in the strategic alliance connecting to university courses. In addition to frequently arranging for departmental teachers to go to high schools to assist with joint lesson preparation and teaching based on high school needs, efforts are also being made how to collaborate

with high schools under limited teaching manpower and time, to meet high school cooperation requests as much as possible, utilize existing resources, and maximize effectiveness, creating a win-win situation for both high schools and universities. Tamkang University already has a complete infrastructure and achievements in cloud campus, agile communication, and online teaching, combined with short course design.

“These issues have been solved to a considerable extent after the launch of the online MOOC courses, and also better meet the needs for autonomous learning by students, allowing high schools to, based on their own needs, introduce teachers’ courses or provide students with flexible learning channels, so that high school students have the opportunity to engage in broader and more diverse learning, without being limited by time.”

The screenshot displays the user interface of the 'edu磨課師+' MOOC platform. At the top, there is a navigation bar with the platform's logo, search and login buttons, and dropdown menus for filtering by audience, category, and theme. The main header area features the course title 'AI素養與思維' and a breadcrumb trail 'edu磨課師+ > 課程資訊'. Below this, a tabbed interface allows users to view the '課程簡介' (Course Introduction), '系列課程' (Course Series), '推薦課程' (Recommended Courses), '通過標準' (Passing Standards), and '課程回饋' (Course Feedback). The '課程簡介' tab is active, showing a detailed description of the course: '本課程透過最常見的機器學習與深度學習方式，來說明計算機如何進行資料的分析及經驗的累積，並進一步說明在學習過程中所發現的錯誤以及自我經驗修'. To the right, a video player shows a lecture by a male instructor, with a list of course objectives overlaid: 'AI素養與思維 課程目標' including understanding AI definitions, learning methods, data/model/feature relationships, machine learning/deep learning methods, future trends, and AI thinking cultivation. The video has a 5-star rating and 22 reviews. A '淡江時報' (Tamkang Times) logo is visible in the bottom right corner of the video player area.