Digital, Technological and Environmental Education

A Technology Education

The MOE aims to promote technology education that is “prospective” or “pioneering,” especially in areas such as the humanities and social sciences, key industries, as well as interdisciplinary studies of the humanities and science. Important issues and topics will be discussed in classrooms. Students will be trained in innovative ways. The effectiveness of teaching and the cultivation of professionalism will be enhanced. Measures include promoting role models, establishing cross-school resources or promotion centers, training of prospective teachers, forming teacher networks, planning of courses/academic programs, developing teaching materials and teaching plans, establishing platforms for hands-on experience and teaching labs, linking industry with academia, and international exchanges. Normalization of measures depends on the nature of a measure. To comply with the national policies of technology development and to cultivate the ability of human resource development as well as the training of professionals as needed by the industry, the MOE conducts some activities, such as conferences, presentations of results, and student competitions. The implementation focuses on:

1. Social Science Education Pilot Project: includes MOE Talent Cultivation Project for Digital Humanities-Phase II.
2. Science & Technology Education in Important Industries Pilot Project: developing talents in such areas as precision healthcare, energy technology, next generation mobile networks technology, intelligent manufacturing, intelligent system-on-chip design, advanced IC design, artificial intelligence, cyber security, and information software.
3. Interdisciplinary Education of Humanities & Science Pilot Project: developing talents for the XPlorer Project, e-Learning, iLink-hss Program, new engineering education method experimentation and construction project.

B Digital Education

The MOE has been devoted to promoting digital education in primary and secondary schools. The Digital Learning Enhancement Plan for Grades 1-12, approved by the Executive Yuan for implementation from 2022-2025 includes the “Internet Access for Every Classroom, Online Learning for Every Student” policy that subsidizes learning tool use by teachers and students during lessons. The main points are as follows:

1. Digital Environment: One device per student is distributed to rural areas schools, while one class is allocated per six classes in non-remote schools. This distribution is accompanied by a Mobile Device Management (MDM) system, which facilitates centralized management and software deployment through MDM settings, making teaching more convenient. Furthermore, the campus internet bandwidth ranges from 300 Mbps to 1 Gbps, and all classrooms are equipped with wireless internet access and smart teaching facilities.
2. Digital Content: Establishing the “The MOE Digital Learning Portal” website, which includes digital resources, tools, and services suitable for primary and secondary schools, to be used by teachers and students with learning devices. Through public-private partnerships, diverse digital content is being developed, and the content and functionality of the “Taiwan Adaptive Learning Platform (TALP)” are being expanded and optimized to develop subject-based, literacy-based, issue-oriented, interactive, and game-based digital content, as well as providing integrated e-book services. Additionally, subsidies are provided to local governments and schools for the procurement of digital content and teaching software to facilitate the use of digital teaching and learning by teachers and students.
3. Teaching Applications : Complete 100% of basic digital teaching training for primary and secondary school teachers, provide digital teaching guidelines, promote various innovative teaching applications such as technology-assisted autonomous learning, 5G new technology learning applications, digital teaching feature