

## [Department of Civil Engineering]

### Department Highlights

Our department is dedicated to cultivating modern engineering professionals equipped with expertise in civil engineering and proficiency in information technology. Emphasizing the integration of construction techniques and engineering law, we aim to train interdisciplinary talents with both practical skills and theoretical knowledge.

One of our most distinguished features is the possession of four large wind tunnel facilities — the only ones of their kind housed within a civil engineering department in Taiwan. These are utilized extensively for research in wind resistance of high-rise buildings, bridges, and atmospheric dispersion. We have established long-term collaborations with internationally renowned wind engineering scholars and achieved significant research outcomes.

Since the 2016 academic year, we have led Asia in establishing an actively controlled multi-fan wind tunnel, along with a transparent “wind field” visualization system using smoke flow. These innovations have greatly advanced our research and teaching resources, firmly establishing our leading role in the field of wind engineering.

Additionally, we offer a “3+2 Dual Degree Program” in collaboration with the University of Queensland, Australia. Students may apply in their third year and, within five years, earn both a bachelor’s degree from our university and a master’s degree from UQ. Furthermore, a corporate internship is arranged during the summer of the third year, allowing students to gain early industry exposure and enhance their practical experience. These educational and research features make Tamkang’s Department of Civil Engineering one of the most distinctive and internationally competitive civil engineering programs in Taiwan.

### Curriculum Overview

Our undergraduate program provides comprehensive training in civil engineering fundamentals while placing special emphasis on IT skills. Courses include programming, computer-aided drafting, numerical analysis, 3D BIM modeling, CAD for structures and geotechnics, construction information systems, and AI applications. Supplementary courses in construction management and engineering law ensure students graduate with both solid professional knowledge and the ability to integrate interdisciplinary skills in practice. Graduates are highly regarded in the industry and qualified for positions such as civil engineers or related technical professionals.

#### Career Prospects

Further Study: Graduate programs in civil engineering or related fields in Taiwan and abroad.

Employment: Graduates qualify for five professional engineer certifications: Civil, Structural, Geotechnical, Hydraulic, and Surveying Engineering. They may also pursue licenses in related fields such as environmental engineering, soil and water conservation, transportation, and applied geology, or take civil service exams for government positions.

#### Contact Information

Website: <http://www.ce.tku.edu.tw/>

Phone: +886-2-2621-5656 ext. 2611