Smart Cities Planning and Management (G) (EMI), Micro Credential(9 Credits)

COND-G-MP-002

Admitted Academic Year：2026

Program's Descriptions：

While paying attention to the potential international trends and key directions of future development, the College of Construction and Development has gradually shifted into cultivating talents involved in smart city construction in addition to maintaining its original professional knowledge and skills. Therefore, the Smart Cities Planning and Management Micro Program aims to guide students with English communication skills, cross-disciplinary backgrounds and professional skills. Through the course learning, students can master smart city related planning and management technologies, such as Internet of Things, big data, artificial intelligence and other emerging technologies, and can be applied to environmental resource management, disaster prevention and monitoring, transportation management planning and other fields. The program will provide the foundation for students to have cross-domain integration capabilities, and be able to comprehensively apply knowledge from different fields to solve complex problems in practical smart city applications. The students also will have the ability to work across departments, and be able to cooperate with various public and private institutions to promote the deep integration of industry, education and research in smart city-related fields. With innovative and entrepreneurial spirit, our students are able to propose new smart city planning and management solutions to promote industrial upgrading and transformation.

Program's Curriculum：

Required/ Elective	Course Number	Course name	Credit	Course Clusters
Elective	TLOG6001	OPTIMIZATION AND APPLICATION	3	1.基礎/核心
Elective	TLOG6002	MACHINE LEARNING & BIG DATA ANALYSIS	3	1.基礎/核心
Elective	CE6018	STRUCTURAL DYNAMICS	3	1.基礎/核心
Elective	HY6019	PLANNING OF WATER ENVIRONMENT WITH LOW-CARBON AND GREEN ENERGY	3	1.基礎/核心
Elective	IPE8041	THEORY AND APPLICATIONS OF REMOTE SENSING	3	1.基礎/核心
Elective	TLOG6011	SPECIAL TOPICS ON INTELLIGENT TRANSPORTATION SYSTEM	3	2.進階課程
Elective	LAND7008	INTERNATIONAL REAL ESTATE	3	2.進階課程
Elective	TLOG6012	INTERNATIONAL LOGISTICS AND NET ZERO IN SUSTAINABILITY	3	3.應用/實作

Total credits： 9　　Required credits： 0　　Elective credits： 9

Industrial Classification：

E00	Water Supply and Remediation Activities
H00	Transportation and Storage
J63	Information Service Activities

Guidelines for Program Completion：

Management Unit： College of Construction and Development / College of Construction and Development