NANYANG TECHNOLOGICAL UNIVERSITY SINGAPORE

NTU Academy for Professional and Continuing Education

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(SCTP) ADVANCED PROFESSIONAL CERTIFICATE

AI AND URBAN INTELLIGENCE FOR FUTURE CITIES

LEAD WITH AI IN THE URBAN ERA

PROGRAMME FEE

Fee before funding: S$18,530
(GST inclusive)

DURATION

Virtual Learning | NTU @ One North
3 months (Part-Time)

PROGRAMME FEE FUNDING*

- Up to 70% - 95% SWDA Funding
- SkillsFuture (Mid-Career) Credit top-up: $4,000
- SkillFuture Mid-Career Training Allowance

* Terms & Conditions apply

PROGRAMME OVERVIEW

Designed for forward-thinking professionals, the AI and Urban Intelligence for Future Cities programme provides practical insights into AI-powered urban planning and smart city development. Through six comprehensive modules, participants will learn to leverage emerging technologies to create sustainable, resilient, and connected cities.

By the end of the programme, participants will have gained valuable insights, hands-on experience, and strategic perspectives to lead digital transformation initiatives in the evolving urban landscape.

Endorsed by cifal Singapore | unitar United Nations Institute for Training and Research

PROGRAMME MODULES

01 **Transitioning with Digital and Sustainable Skills**

02 **Foundations of Intelligent Urban Environments**

03 **Smart Infrastructure, Energy Management and Security**

04 **Digital Urban Management & Automation (Urban Intelligence in Action)**

05 **Future Trends & Innovations in Intelligent Urban Environments**

06 **Capstone: Urban Intelligence**

PROGRAMME KEY FEATURES

Comprehensive and Strategic Insights
Gain comprehensive, cross-disciplinary insights into AI, digital transformation, and smart, sustainable building technologies.

Expand Your Leadership Network
Connect with forward-thinking professionals, industry leaders, policy experts, and tech innovators shaping the future of cities.

Global and Local Perspectives on Urban Sustainability
Engage in hands-on learning through case studies, site visits, and a Capstone Project to apply urban intelligence strategies in real-world contexts.

Advanced Professional Certificate by NTU.

DISTINGUISHED FACULTY & TRAINERS



TERENCE TAN
Programme Director

With 34 years of regional leadership experience, he is a specialist in sustainable and smart building solutions, covering energy-efficient systems, green buildings, and smart cities. Formerly a Director of Integrated Building Solutions at an MNC, he now advises several sustainability-focused organisations, guiding strategies that drive innovation and sustainable transformation in the built environment. His expertise spans digital solutions, building systems, and energy management.



ALVIN NG
Adjunct Associate Professor

Alvin is a seasoned global leader with over 28 years of experience in sales, product management, and digital transformation. He has held senior roles at leading multinational companies, including Aboitiz Data Innovation, Johnson Controls, and GE Digital, where he led multi-million-dollar growth initiatives in AI, digital, and sustainability solutions. Currently, he serves as an adjunct associate professor at NTU and Sasin School of Management, teaching AI, digital transformation, and leadership.

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