THE UNIVERSITY OF HONG KONG

Master of Science in Digital Management of Built Assets [MSc(DMBA)] (2024-25)

1.   The MSc (DMBA) provides an innovative and unique project management education to meet the needs of those professionals working in a Smart Built Environment.

2.   The built environment faces digital transformation, health and safety, digital trust, carbon neutrality, and other sustainability issues. DMBA offers cutting-edge knowledge and a new way of working with digital twin technologies, building information modelling (BIM), geographic information system (GIS), artificial intelligence/machine learning (AI/ML), blockchain, and metaverse/gaming technologies available in the HKU UrbanLab i5 BIM Research Lab that focuses on (Internationalisation, Innovation, Interdisciplinarity, Impact, and A.I.

With the learning experience of disruptive digital technologies, students will be able to close the gap between virtual and reality while managing the built assets, for example, through the effective use of a single source of information within a Common Data Environment (CDE) and other digital twin technologies, setting up information requirements for asset owners, developing a successful project execution plan, understanding standards harmonisation across life-cycle, and integrating systems of systems and other organizational processes to ensure the built assets can last longer and perform better.

Overall, students, through teaching and learning in class, case method courses, tech simulations, and semester-long projects, will learn and develop skills in:
- Strategic technology management, developing skills in the direction of digital twin technologies, CDE, BIM, GIS, AI/ML, ProTech, blockchain and metaverse/game technologies
- Change management in organisations and projects
- Team building, collaborative design, and project management and built assets management
- Understanding and managing interdisciplinary and cross-cultural differences in teams
- Understanding the life-cycle and best practice project, information, and built assets management experiences for the Architecture, Engineering, Construction, and Owner-operated (AECO) industry
- Broaden their global horizon regarding innovation and contextualising digital tools for a smart built environment on issues like carbon neutrality and sustainability goals like the United Nations (U.N.) Sustainable Development Goals (SDGs).

The course is designed to provide real estate and construction professionals (e.g., facilities managers, asset managers, architects, designers, surveyors, civil and structural engineers) with advanced education in key aspects of the land conversion or development process that involve decisions using digital technologies relating to the through-life operation of built assets in both the private and public sectors. We aim to train future leaders to drive the transformation of the world's largest ecosystem and to reshape the next generation smart built environment in Hong Kong and GBA regions.

The programme is offered with contributions from local industry and internationally renowned visiting professors. It is professionally accredited by The Chartered Institute of Building (CIOB) and The Royal Institution of Chartered Surveyors (RICS), and

professional accreditation will be sought from the Construction Industry Council (CIC-Accredited BIM Manager Course).

3.   The tuition fee for 2024-25 intake is HK$250,080* per programme (72 credits for both full time and part time modes of study) *[*subject to University's approval].*

4.   Study Mode: 2-Year Part-Time; 1 Year Full-Time

5.   To be eligible for admission to the curriculum leading to the Master of Science in Digital Management of Built Assets, a candidate

   a) shall comply with the General Regulations and the Regulations for Taught Postgraduate Curricula;
   b) shall hold a Bachelor's degree from the University or a comparable institution accepted for this purpose;
   c) for a candidate who is seeking admission on the basis of a qualification from a university or comparable institution outside Hong Kong of which the language of teaching and/or examination is not English, shall satisfy the University English language requirement applicable to higher degrees as prescribed under General Regulation G2(b); and
   d) shall satisfy the examiners in a qualifying examination if required.

6.   Applications for a taught postgraduate programme can be submitted via our online application system at http://hku.hk/tpg.

7.   The closing date for application (September 2024 intake) is noon (GMT+8), 30 April 2024.

8.   The University should be able to inform applicants by the end of July 2024. If you do not hear your result by 20 August 2024, please contact the Faculty of Architecture by email at claren@hku.hk.

February 2024