THE UNIVERSITY OF HONG KONG
Faculty of Architecture
Department of Real Estate and Construction

Master of Science in Digital Management of Built Assets

Programme Learning Outcomes

1. University Educational Aims (UEAs) for Taught Postgraduate Programmes

Benchmarked against the highest international standards, the taught postgraduate programmes at HKU are designed to enable our students to develop their capabilities in:

UEA1 Critical intellectual enquiry and acquiring up-to-date knowledge and research skills in a discipline / profession
UEA2 Application of knowledge and research skills to practice or theoretical exploration, demonstrating originality and creativity
UEA3 Tackling novel situations and ill-defined problems
UEA4 Collaboration and communication of disciplinary knowledge to specialists and the general public
UEA5 Awareness of and adherence to personal and professional ethics
UEA6 Enhancement of leadership and advocacy skills in a profession

2. Statement of Programme Learning Outcomes (PLOs)

PLO	Statement
1	Demonstrate in-depth knowledge and understanding of digital management of built assets, its theoretical and professional basis and its effectiveness and limitations in creating sustainable, high-quality facilities.
2	Critique received knowledge and modes of inquiry in the fields of digital management of built assets from multiple perspectives and experiences in different institutional perspectives and in different contexts.

3	Explain the complexity of applying advanced technology and change management to organization, projects and built assets (e.g. BIM, CDE, ProTech, GIS, IoT, AI/ML, VR/AR, gaming technologies, Blockchain, VDC and IPD).
4	Identify the contexts within which the aforesaid advanced technology and change management add value to projects and society.
5	Evaluate, appraise, analyse and synthesize information and data to generate effective, comprehensive and well-substantiated solutions and decisions to design and construction problems.
6	Demonstrate interpersonal skills for active engagement of stakeholders of diverse cultures and other professional disciplines in the design, construction and facilities management processes and decision making.
7	Assess implications of design and construction solutions from multiple perspectives and make rational, evidence-based and creative decisions.
8	Respond creatively and effectively to unfamiliar problems, scenarios and challenges in the context of digital management of built assets.
9	Develop awareness of and ability to use new design and construction technology, methods and tools.
10	Communicate effectively in academic, professional and social settings.
11	Work independently and collaborate with interdisciplinary teams to tackle urban and regional planning issues.
12	Demonstrate skills in negotiation, conflict resolution and consensus building in practice.
13	Demonstrate recognition of personal strengths and weaknesses in professional issues and a commitment to lifelong learning for advancing knowledge and professional excellence.
14	Demonstrate respect for both individual rights and community interest in achieving sustainable development, and the importance of inclusiveness, equity, diversity and integrity in practice.
15	Defend public interest and promote sustainable development of human society and uphold highest ethical standards in professional practice.

3. **Statement of Programme Learning Outcomes (PLOs) aligned with or mapped against University Educational Aims (UEAs)**
Mapping of the PLOs against the UEAs (in the form of a matrix). Please put a tick in the appropriate boxes.

UEAs	**Programme Learning Outcomes**														
	PLO 1	**PLO 2**	**PLO 3**	**PLO 4**	**PLO 5**	**PLO 6**	**PLO 7**	**PLO 8**	**PLO 9**	**PLO 10**	**PLO 11**	**PLO 12**	**PLO 13**	**PLO 14**	**PLO 15**
1.Critical intellectual enquiry and acquiring up- to-date knowledge and research skills in a discipline / profession	√	√	√												
2.Application of knowledge and research skills to practice or theoretical exploration, demonstrating originality and creativity				√	√	√									
3.Tackling novel situations and ill-defined problems							√	√	√						
4.Collaboration and communication of disciplinary knowledge to specialists and the general public										√	√	√			
5.Awareness of and adherence to personal and professional ethics													√	√	√
6.Enhancement of leadership and advocacy skills in a profession															√