THE UNIVERSITY OF HONG KONG

Mapping of Programme Learning Outcomes to University Educational Aims – Taught Postgraduate Programmes

School of Computing and Data Science

Programme title: Master of Science in Computer Science

Applicable student cohort(s): Students admitted in 2026-27 and thereafter.

The proposed new stream, "AI & Decentralized Technologies," will adhere to the same PLO (Programme Learning Outcomes).

The purpose of mapping is to illustrate the coherence of the programme in achieving the University Educational Aims (UEAs). The mapping should be an evaluative and reflective process, and the Faculty / School must ensure that the programme as a whole offers students sufficient opportunities to develop the attributes articulated in each of the UEAs and the corresponding Institutional Learning Outcomes. *Please put a tick (√) in the boxes under the UEA columns below to indicate the alignment, as applicable.*

Programme Learning Outcomes (PLOs)	**Alignment with University Educational Aims (UEAs)*** Benchmarked against the highest international standards, the taught postgraduate programmes at HKU are designed to enable students to develop 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 *(for professional programmes only)*
PLO1: The ability to develop, monitor and update a plan, to reflect a changing operating environment			√	√		√
PLO2: The ability to monitor and adjust a personal programme of work on an on-going basis, and to learn independently	√		√			
PLO3: The ability to exercise initiative and personal responsibility, which may be as a team member or leader	√	√			√	√

PLO4: The ability to learn new theories, concepts, methods etc and apply these in unfamiliar situations		√	√			
PLO5: A comprehensive understanding of the relevant scientific principles of the specialisation	√					
PLO6: A critical awareness of current problems and/or new insights much of which is at, or informed by, the forefront of the specialization	√		√			
PLO7: An understanding of concepts relevant to the discipline, some from outside engineering, and the ability to critically evaluate and apply them effectively.	√					
PLO8: The ability to use fundamental knowledge to investigate new and emerging technologies		√	√			
PLO9. The ability to apply appropriate models for solving problems in engineering, and the ability to assess the limitations of particular cases		√	√			
PLO10. The ability to collect and analyse research data and use appropriate engineering tools to tackle unfamiliar problems, such as those with uncertain or incomplete data or specifications, by the appropriate innovation, use or adaptation of engineering analytical methods	√		√			

PLO11. The ability to apply original thought to the development of practical solutions for products, systems, components or processes		√				
PLO12. Knowledge and understanding of management and business practices, and their limitations, and how these may be applied appropriately, in the context of the particular specialisation	√					
PLO13. The ability to make general evaluations of risks through some understanding of the basis of such risks		√	√			
PLO14. A thorough understanding of current practice and its limitations, and some appreciation of likely new developments	√		√			
PLO15. Advanced level knowledge and understanding of a wide range of engineering materials and components	√					
PLO16. The ability to apply engineering techniques taking account of a range of commercial and industrial constraints		√				

*The Institutional Learning Outcomes for each UEA can be found at tl.hku.hk/tl/.

March 2022
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