The Chinese University of Hong Kong
Department of Information Engineering
Programme Objectives and Outcomes

1. Preliminaries

The purpose of this document is to put forward ideas and proposals for defining the IE program objectives and outcomes. Program Objectives define what our graduates will be able to achieve in a longer time frame (e.g., 5 years), while Learning Outcomes define what our graduates will be capable of immediately after graduation.

2. Ideas

2.1 Program Objectives

The following program objectives state what our graduates will achieve in a few years after graduation.

Objective 1: Our graduates should excel in engineering and professional positions in industries and organizations that design, develop, deploy, or employ information systems, networks, and services.

Objective 2: Our graduates should develop a global perspective of the impact of information engineering to commerce, industry, and society, and be able to contribute to or lead interdisciplinary engineering projects.

Objective 3: Our graduates should continue their personal development through professional studies and life-long learning, and some will pursue and excel in graduate schools worldwide.

2.2 Learning Outcomes

The following learning outcomes define what our graduates will be capable of immediately after graduation.

Outcome 1: Foundations: students will understand the fundamentals of mathematics, science, and engineering and be able to apply them to the design, analysis, and implementation of engineering systems. (ABET Criteria 3a, 3b, 3c, 3e, 3k)

Outcome 2: Breadth: students will have exposures to and understand the impact of other science and engineering areas as well as non-engineering areas such as social, economic, environmental, health and safety issues. (ABET Criteria 3a, 3c, 3d, 3h, 3j)

Outcome 3: Depth: students will be able to develop one or more in-depth specializations within the IE program. (ABET Criteria 3a, 3b, 3e, 3k)

Outcome 4: Curiosity: students will appreciate the value of and develop the ability to life-long learning. (ABET Criteria 3i)

Outcome 5: Creativity: students will develop problem-solving skills and the ability to innovate new engineering solutions.

Outcome 6: Integrity: students will understand the importance of professional, social, and ethical responsibilities in engineering practice. (ABET Criteria 3f)

Outcome 7: Communication Skills: students will develop the skills to communicate effectively both orally and in writing. (ABET Criteria 3g)

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