

**The University of Hong Kong
Department of Industrial and Manufacturing Systems Engineering**

Programme Level Learning Outcomes	University Educational Aims (UEAs)
<p>Upon successful completion of the curriculum, students should be able to possess:</p> <ul style="list-style-type: none"> A. An ability to apply mathematical knowledge, scientific principles, information and communications technology, and the concepts of engineering appropriate to the degree discipline. B. An in-depth understanding of and an ability to apply the core knowledge, including for design and conducting experiments and simulations, in industrial engineering, logistics, and services engineering. C. An ability to identify, analyse, and propose solutions to related operational problems. D. An ability to plan, design, and manage logistics, manufacturing and service systems. E. An ability to contribute to resources management and systems integration and optimisation. F. An ability to recognise and explore entrepreneurial opportunities in an ever-changing business environment, and to take on professional leadership and responsibilities. G. An ability to apply innovative technologies in products and processes design/improvement. H. An ability to appreciate the need and recognise the importance of professional and ethical responsibility and behaviour. I. An ability to understand the impact of engineering solutions in a global and societal context, especially the importance of health, safety, and other factors that can impact the internal and external environment. J. An ability to apply the techniques and skills of modern engineering to a broad range of engineering problems, as expected of an engineering graduate. K. An ability to communicate effectively in teamwork, in multi-disciplinary collaboration, and in leadership and company representative roles. L. An appreciation of the need for and the ability to engage in the life-long learning process required for professional development and for maintaining competency. 	<p>University Educational Aim 1.</p> <ul style="list-style-type: none"> • Benchmarked against the highest international standards, the 4-year undergraduate curriculum at HKU is designed to enable our students to develop their capabilities in pursuit of academic/professional excellence, critical intellectual enquiry and life-long learning

<p>Upon successful completion of the curriculum, students should be able to possess:</p> <ul style="list-style-type: none"> A. An ability to apply mathematical knowledge, scientific principles, information and communications technology, and the concepts of engineering appropriate to the degree discipline. B. An in-depth understanding of and an ability to apply the core knowledge, including for design and conducting experiments and simulations, in industrial engineering, logistics, and services engineering. C. An ability to identify, analyse, and propose solutions to related operational problems. D. An ability to plan, design, and manage logistics, manufacturing and service systems. E. An ability to contribute to resources management and systems integration and optimisation. F. An ability to recognise and explore entrepreneurial opportunities in an ever-changing business environment, and to take on professional leadership and responsibilities. G. An ability to apply innovative technologies in products and processes design/improvement. H. An ability to appreciate the need and recognise the importance of professional and ethical responsibility and behaviour. I. An ability to understand the impact of engineering solutions in a global and societal context, especially the importance of health, safety, and other factors that can impact the internal and external environment. J. An ability to apply the techniques and skills of modern engineering to a broad range of engineering problems, as expected of an engineering graduate. 	<p>University Educational Aim 2.</p> <ul style="list-style-type: none"> • Benchmarked against the highest international standards, the 4-year undergraduate curriculum at HKU is designed to enable our students to develop their capabilities in tackling novel situations and ill-defined problems
<p>Upon successful completion of the curriculum, students should be able to possess:</p> <ul style="list-style-type: none"> H. An ability to appreciate the need and recognise the importance of professional and ethical responsibility and behaviour. I. An ability to understand the impact of engineering solutions in a global and societal context, especially the importance of health, safety, and other factors that can impact the internal and external environment. J. An ability to apply the techniques and skills of modern engineering to a broad range of engineering problems, as expected of an engineering graduate. 	<p>University Educational Aim 3.</p> <ul style="list-style-type: none"> • Benchmarked against the highest international standards, the 4-year undergraduate curriculum at HKU is designed to enable our students to develop their capabilities in critical self-reflection, greater understanding of others, and upholding personal and professional ethics

<p>K. An ability to communicate effectively in teamwork, in multi-disciplinary collaboration, and in leadership and company representative roles.</p> <p>L. An appreciation of the need for and the ability to engage in the life-long learning process required for professional development and for maintaining competency.</p>	
<p>Upon successful completion of the curriculum, students should be able to possess:</p> <p>H. An ability to appreciate the need and recognise the importance of professional and ethical responsibility and behaviour.</p> <p>I. An ability to understand the impact of engineering solutions in a global and societal context, especially the importance of health, safety, and other factors that can impact the internal and external environment.</p> <p>J. An ability to apply the techniques and skills of modern engineering to a broad range of engineering problems, as expected of an engineering graduate.</p> <p>K. An ability to communicate effectively in teamwork, in multi-disciplinary collaboration, and in leadership and company representative roles.</p> <p>L. An appreciation of the need for and the ability to engage in the life-long learning process required for professional development and for maintaining competency.</p>	<p>University Educational Aim 4.</p> <ul style="list-style-type: none"> • Benchmarked against the highest international standards, the 4-year undergraduate curriculum at HKU is designed to enable our students to develop their capabilities in intercultural communication and global citizenship
<p>Upon successful completion of the curriculum, students should be able to possess:</p> <p>H. An ability to appreciate the need and recognise the importance of professional and ethical responsibility and behaviour.</p> <p>I. An ability to understand the impact of engineering solutions in a global and societal context, especially the importance of health, safety, and other factors that can impact the internal and external environment.</p> <p>J. An ability to apply the techniques and skills of modern engineering to a broad range of engineering problems, as expected of an engineering graduate.</p> <p>K. An ability to communicate effectively in teamwork, in multi-disciplinary collaboration, and in leadership and company representative roles.</p> <p>L. An appreciation of the need for and the ability to engage in the life-long learning process required for professional development and for maintaining competency.</p>	<p>University Educational Aim 5.</p> <ul style="list-style-type: none"> • Benchmarked against the highest international standards, the 4-year undergraduate curriculum at HKU is designed to enable our students to develop their capabilities in communication and collaboration

<p>Upon successful completion of the curriculum, students should be able to possess:</p> <ul style="list-style-type: none">H. An ability to appreciate the need and recognise the importance of professional and ethical responsibility and behaviour.I. An ability to understand the impact of engineering solutions in a global and societal context, especially the importance of health, safety, and other factors that can impact the internal and external environment.J. An ability to apply the techniques and skills of modern engineering to a broad range of engineering problems, as expected of an engineering graduate.K. An ability to communicate effectively in teamwork, in multi-disciplinary collaboration, and in leadership and company representative roles.L. An appreciation of the need for and the ability to engage in the life-long learning process required for professional development and for maintaining competency.	<p>University Educational Aim 6.</p> <ul style="list-style-type: none">• Benchmarked against the highest international standards, the 4-year undergraduate curriculum at HKU is designed to enable our students to develop their capabilities in leadership and advocacy for the improvement of the human condition
--	--