

The Hong Kong Polytechnic University

Subject Description Form

Subject Code	ISE5774
Subject Title	Strategy and Operations Management
Credit Value	3
Level	5
Pre-requisite/ Co-requisite/ Exclusion	None but some preliminary reading of strategy and operations management would be beneficial.
Objectives	<ol style="list-style-type: none"> 1. To understand the way in which operations strategy is both derived from, and informs and supports, the organisational/business strategy. 2. To critically evaluate and apply a range of tools, techniques and technologies suitable for different industrial and service contexts.
Intended Learning Outcomes <i>(Note 1)</i>	<p>Upon completion of the subject, students will be able to:</p> <ol style="list-style-type: none"> a. Develop a comprehensive understanding of the fundamental principles & theories of operations management and understand any strategic importance in key aspects. b. Critically evaluate operations strategies and approaches to assess their alignment with the competitive environment. c. Provide appropriate recommendations to any real-world operations management related issue, problem or opportunity by applying relevant models, frameworks, tools and techniques. d. Appraise selected tools and techniques used in operations management, and evaluate their impact.
Subject Synopsis/ Indicative Syllabus <i>(Note 2)</i>	<p>This is an indicative module outline only to give an indication of the sort of topics that may be covered. Actual sessions held may differ.</p> <ol style="list-style-type: none"> 1. Operations Management and Strategy 2. Capacity Management 3. Inventory Management 4. Planning and Control Systems 5. Forecasting 6. Process/Operations Design (such as Lean, Agile) 7. Service Operations 8. Operations Performance 9. Sustainable Operations Management

Teaching/Learning Methodology (Note 3)	<p>Lectures and simulation exercises are used to deliver various topics in this subject. The simulation exercises are mainly based on real life situations. These integrate the topics covered and thus demonstrate how the various techniques are inter-related and how they apply in real life situations.</p> <p>Alignment between Teaching/Learning Methodologies and ILOs:</p> <table><tr><th>Teaching/Learning Methodologies</th><th colspan="5">Intended Subject Learning Outcomes to be assessed</th></tr><tr><td></td><td>a</td><td>d</td><td>c</td><td>d</td><td></td></tr><tr><td>Lecture</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td></td></tr><tr><td>Simulation Exercises</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td></td></tr></table>	Teaching/Learning Methodologies	Intended Subject Learning Outcomes to be assessed						a	d	c	d		Lecture	✓	✓	✓	✓		Simulation Exercises	✓	✓	✓	✓															
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Assessment Methods in Alignment with Intended Learning Outcomes (Note 4)	<table><tr><th rowspan="2">Specific assessment methods/tasks</th><th rowspan="2">% weighting</th><th colspan="6">Intended subject learning outcomes to be assessed (Please tick as appropriate)</th></tr><tr><th>a</th><th>b</th><th>c</th><th>d</th><th></th><th></th></tr><tr><td>1. In-module Simulation Exercises</td><td>20%</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td></td><td></td></tr><tr><td>2. Post-Module Written Assignment</td><td>80%</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td></td><td></td></tr><tr><td>Total</td><td>100%</td><td colspan="6"></td></tr></table> <p>Explanation of the appropriateness of the assessment methods in assessing the intended learning outcomes (ILO's):</p> <p>The simulation exercises will include main topics covered in the subject which will therefore embrace all the learning outcomes. The post-module assignment requires participants to apply what they have learnt in the subject to their own work environment. These will embrace the ILO's albeit in different work situations.</p>	Specific assessment methods/tasks	% weighting	Intended subject learning outcomes to be assessed (Please tick as appropriate)						a	b	c	d			1. In-module Simulation Exercises	20%	✓	✓	✓	✓			2. Post-Module Written Assignment	80%	✓	✓	✓	✓			Total	100%						
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Student Study Effort Expected	<table><tr><td>Class contact:</td><td></td></tr><tr><td>▪ Lectures</td><td>24 Hrs.</td></tr><tr><td>▪ Assignment Activities</td><td>6 Hrs.</td></tr><tr><td>Other student study effort:</td><td></td></tr><tr><td>▪ Assessment</td><td>60 Hrs.</td></tr><tr><td>▪ Private Study</td><td>60 Hrs.</td></tr><tr><td>Total student study effort</td><td>150 Hrs.</td></tr></table>	Class contact:		▪ Lectures	24 Hrs.	▪ Assignment Activities	6 Hrs.	Other student study effort:		▪ Assessment	60 Hrs.	▪ Private Study	60 Hrs.	Total student study effort	150 Hrs.																								
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Reading List and References	<p>Please see attached reading list and references for details.</p>																																						

Note 1: Intended Learning Outcomes

Intended learning outcomes should state what students should be able to do or attain upon subject completion. Subject outcomes are expected to contribute to the attainment of the overall programme outcomes.

Note 2: Subject Synopsis/Indicative Syllabus

The syllabus should adequately address the intended learning outcomes. At the same time, overcrowding of the syllabus should be avoided.

Note 3: Teaching/Learning Methodology

This section should include a brief description of the teaching and learning methods to be employed to facilitate learning, and a justification of how the methods are aligned with the intended learning outcomes of the subject.

Note 4: Assessment Method

This section should include the assessment method(s) to be used and its relative weighting, and indicate which of the subject intended learning outcomes that each method is intended to assess. It should also provide a brief explanation of the appropriateness of the assessment methods in assessing the intended learning outcomes.