

# HONG KONG IGDS - MSC MODULE OUTLINE

Subject Title	Strategy and Finance for Engineering Organisations (SFEO)																								
	HK PolyU		WarwickU																						
Subject Code	ISE5761		WM9E8-15																						
Credit Value	3		15																						
Level	Level 5		Taught Postgraduate Level																						
Pre-requisite/ Co-requisite/Exclusion	None but some preliminary reading of quality, reliability and maintenance would be beneficial.																								
Introduction	The existence of a properly formulated and explicit strategy is essential to ensure the development and success of any business. In engineering organisations, both the business strategy and operations strategy are key elements. Engineering organisations are in a unique and dynamic situation offering various products and services with different market requirements and order winning criteria. The underpinning philosophy and methodology of this module is to present a variety of concepts, models and frameworks, methods and examples of how a strategy for managing an engineering organisation can be formulated and implemented in the engineering industry.																								
Objectives	No 1 To provide the student with an advanced knowledge and comprehension of strategy and finance for managing an engineering organisation and the underpinning key decision areas. No 2 To develop the student’s capability to apply the strategy formulation process in an engineering organisational context, via various simulations and an In-Module Assessment during the module, and a Post-Module Assessment at the end.																								
Intended Learning Outcomes (ILO’s) (Note 1)	Upon completion of the subject, participants will be able to: No 1 critically evaluate key strategic decisions areas, capabilities and competitive positioning of an organisation in order to improve, or sustain, long-term competitive advantage. No 2 calculate and interpret the costs of production of goods, budgets and projections No 3 critically apply and appraise the tools and techniques used to manage and measure the implementation and development of strategy and finance for an engineering organisation. No. 4 assess real world strategy and finance for an engineering organisation issue through applying learned models, frameworks, methodologies and techniques.																								
Teaching/Learning Methodology (Note 2)	Lectures and case studies are used to deliver the various topics in this module. Since the case studies are exclusively based on real life situations, they help to demonstrate how to apply the techniques learnt. Therefore, they enhance the learning objectives and learning outcomes. <u>Alignment between Teaching/Learning Methodologies and ILOs:</u> <table><tr><td>Teaching/Learning Methodologies</td><td colspan="4">Intended Subject Learning Outcomes to be assessed</td></tr><tr><td></td><td>No 1</td><td>No 2</td><td>No 3</td><td>No 4</td></tr><tr><td>Lecture</td><td>√</td><td>√</td><td>√</td><td>√</td></tr><tr><td>Practical Classes</td><td>√</td><td>√</td><td>√</td><td>√</td></tr></table>					Teaching/Learning Methodologies	Intended Subject Learning Outcomes to be assessed					No 1	No 2	No 3	No 4	Lecture	√	√	√	√	Practical Classes	√	√	√	√
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Practical Classes	√	√	√	√																					

<b>Assessment Methods in Alignment with Intended Learning Outcomes</b> <i>(Note 3)</i>	Assessment Methods/ Tasks		% Weight	Intended Learning Outcomes (ILO's)			
				No 1	No 2	No 3	No 4
	1. In-module assessment (IMA)		230	√	√	√	√
	2. Post Module Assignment (PMA)		80	√	√	√	√
	Total		100				
Explanation of the appropriateness of the assessment methods in assessing the intended learning outcomes (ILO's). The In-module assessment will cover all the topics covered in the module which will therefore embrace all the learning outcomes. The PMA requires participants to apply what they have learnt in the module to their own work environment. These will embrace the ILO's albeit in different work situations.							
<b>Student Study Effort Required</b>	Class Contact:						
	Lecture			30 Hours			
	Practical class			9 Hours			
	Other Participant Study Effort:						
	Private Study			111 Hours			
	Total Participant Study Effort			150 Hours			
<b>Reading List and References</b>	The list given to participants covers core texts and embraces all the topics covered in the module. The references provided support the taught material. They can be found in the Folder Notes given to participants at the commencement of the module.						

Note 1: Intended Learning Outcomes

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

Note 2: Teaching/Learning Methodology

This section includes 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 3: Assessment Method

This section includes the assessment method(s) used and its relative weighting, and indicates which of the subject intended learning outcomes that each method assesses. It also provides a brief explanation of the appropriateness of the assessment methods in assessing the intended learning outcomes.