

HONG KONG IGDS - MSC MODULE OUTLINE

Subject Title	Logistics and Operations Management (LOM)	
	<i>HK PolyU</i>	<i>WarwickU</i>
Subject Code	ISE5757	WM9F6-15
Credit Value	3	15
Level	Level 5	Taught Postgraduate Level
Pre-requisite/ Co-requisite/Exclusion	None but some preliminary reading of logistics and operations management would be beneficial.	
Introduction	Operations Management involves transforming inputs (capital, labour and materials) efficiently and effectively into outputs valued by the end customer in manufacturing or service environments. Logistics is recognised as a key function in meeting market requirements quickly, flexibly and without incurring punitive inventory costs. To be competitive, companies need to manage operations and logistics both internally and externally across their supply chains.	
Objectives	<p>No 1 To give students a comprehensive understanding of the tools and techniques involved in Operations and Logistics management.</p> <p>No 2 To critically evaluate which tools, techniques and technologies are most applicable in different industrial contexts.</p>	
Intended Learning Outcomes (ILO's) (Note 1)	<p>Upon completion of the subject, participants will be able to:</p> <p>No 1 analyse the interrelationships and interdependencies between capacity, inventory and delivery performance.</p> <p>No 2 critically evaluate how to manage capacity, inventory and delivery to achieve effective and efficient operational performance.</p> <p>No 3 compare and contrast different tools and techniques for the planning and control of logistics and operations management in order to justify their use in a variety of operational environments.</p> <p>No 4 critically appraise how appropriate technologies can be applied to improve logistics and operations management in a business or sector.</p>	
Indicative Syllabus Topics (Note 2)	<p>No 1 Logistics and transport services, and types of operations and interoperability</p> <p>No 2 Forecasting demand, capacity management, scheduling and sequencing and inventory management</p> <p>No 3 Planning & control systems and methodologies (e.g. Material Requirements Planning (MRP), Manufacturing Resource Planning (MRPII), Enterprise Resource Planning (ERP), Just In Time)</p> <p>No 4 Examples of applications of Logistics and Operations Management in a range of industries, including manufacturing and service environments</p>	

<p style="text-align: center;">Teaching/Learning Methodology (Note 3)</p>	<p>Lectures and case studies are used to deliver the various topics in this module. Some of which will be covered in a problem-based format where this enhances the learning objectives and learning outcomes. The case studies are exclusively based real life situations, albeit sometimes in a simplified format. These integrate the topic covered and thus demonstrate how the various techniques are inter-related and how they apply in real life situations.</p> <p style="text-align: center;"><u>Alignment between Teaching/Learning Methodologies and ILOs:</u></p> <table border="1" data-bbox="581 436 1427 611"> <thead> <tr> <th rowspan="2">Teaching/Learning Methodologies</th> <th colspan="4">Intended Subject Learning Outcomes to be assessed</th> </tr> <tr> <th>No 1</th> <th>No 2</th> <th>No 3</th> <th>No 4</th> </tr> </thead> <tbody> <tr> <td>Lecture</td> <td style="text-align: center;">√</td> <td style="text-align: center;">√</td> <td style="text-align: center;">√</td> <td style="text-align: center;">√</td> </tr> <tr> <td>Case studies</td> <td style="text-align: center;">√</td> <td style="text-align: center;">√</td> <td style="text-align: center;">√</td> <td style="text-align: center;">√</td> </tr> </tbody> </table>	Teaching/Learning Methodologies	Intended Subject Learning Outcomes to be assessed				No 1	No 2	No 3	No 4	Lecture	√	√	√	√	Case studies	√	√	√	√									
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<p style="text-align: center;">Reading List and References</p>	<p>The list given to participants covers core texts only. It embraces all the topics covered in the module. In total there are more than 10 references provided. They can be found in the Folder Notes given to participants at the commencement of the module.</p>																												

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: Subject Synopsis/ Indicative Syllabus

The syllabus adequately addresses the intended learning outcomes. At the same time over-crowding of the syllabus has been avoided.

Note 3: 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 4: 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.