

# The Hong Kong Polytechnic University

## Subject Description Form

<b>Subject Code</b>	LGT5015
<b>Subject Title</b>	Supply Chain Management
<b>Credit Value</b>	3
<b>Level</b>	5
<b>Normal Duration</b>	1-semester
<b>Pre-requisite / Co-requisite/ Exclusion</b>	Nil
<b>Objectives</b>	<p>This course discusses the concepts, theory, models, tools, and the best practices of modern supply chain management (SCM) to help students:</p> <ul style="list-style-type: none"> <li>▪ understand the strategic importance of SCM in improving a firm's competitive position in the marketplace with consideration of the fast-evolving economic, policy, and regulatory requirements for international trade and logistics;</li> <li>▪ understand the key characteristics of successful supply chains and how they differ from the traditional approaches;</li> <li>▪ gain insights into issues involved in the design, planning, and deployment of a supply chain;</li> <li>▪ understand the design of international logistics networks and distribution strategies</li> <li>▪ understand the impact of SCM principle on a firm's overall strategy, in particular, the impact on a firm's marketing strategy;</li> <li>▪ understand the supply chain management development in the internet plus time;</li> <li>▪ develop fundamental data science skills for analyzing and managing a supply chain in an organization.</li> </ul> <p>This subject contributes to the following Intended Learning Outcomes for the MSc programme(s):</p> <p>MSc/PgD in International Shipping and Transport Logistics (Mixed-mode/Full time Stream)</p> <p>#2 Evaluate international logistics systems, operations and management, provide an insight and understanding of the concepts, theory of international logistics</p> <p>MSc/PgD in Global Supply Chain Management</p> <p>#1 Employ supply chain management (Learning objective 1a)</p> <p>MSc in Operations Management</p> <p>#2 Develop the specific operations management knowledge</p>

<p><b>Intended Learning Outcomes</b></p>	<p>Upon completion of the subject, students will be able to:</p> <ol style="list-style-type: none"> <li>a. evaluate the impact of supply chain and international logistics activities on the financial performance of a firm</li> <li>b. identify and assess the inter-actions of inventory, time, information, and financial factors in a supply chain context</li> <li>c. understand basic data science and modelling approaches for supply chain design, coordination and optimization</li> <li>d. recognize and understand the importance of the multi-organizational nature of supply chain management</li> <li>e. recognize and understand the importance of logistics network design and distribution strategies and the corresponding multi-modal transportation arrangements that are essential to contemporary shipping and logistics</li> <li>f. recognize and understand some key issues in supply chain management and the possible approaches that can be used to tackle these issues</li> <li>g. understand the ethical issues in the global supply chain management</li> </ol>
<p><b>Subject Synopsis/ Indicative Syllabus</b></p>	<ul style="list-style-type: none"> <li>▪ Logistics, supply chain, and competitive advantages</li> <li>▪ The role of inventory in supply chains and basic methodologies for inventory management</li> <li>▪ Uncertainty and risk, and how to deal with them through good inventory management approaches</li> <li>▪ Value of information and information sharing in supply chains</li> <li>▪ Distribution strategies</li> <li>▪ Supply chain coordination and strategic alliance</li> <li>▪ Procurement and outsourcing</li> <li>▪ Supply chain integration</li> <li>▪ Ethical issues in supply chain and logistics operations</li> </ul>
<p><b>Teaching/Learning Methodology</b></p>	<p>Lectures to introduce concepts, theories, management issues, and methodologies.</p> <p>Case studies and/or group projects: make connections of the contents from the lectures with real business practices so as to deepen the understanding of the concepts, theories, and issues of supply chain management.</p> <p>In-class exercises and take-home assignments: help students to grasp some of the key methodologies and tools; practice some basic analysis skills and access their understanding of some basic concepts and analysis skills.</p>

<b>Assessment Methods in Alignment with Intended Learning Outcomes</b>	Specific assessment methods/tasks	% weighting	Intended subject learning outcomes to be assessed (Please tick as appropriate)					
			a	b	c	d	e	f
	1. Coursework*	50 %	✓	✓	✓	✓	✓	✓
	2. Examination	50 %	✓	✓	✓		✓	✓
	Total	100 %						
<p>*Coursework may include case studies, group projects, individual assignments, and class participation</p> <p>To reflect the significant technology content in this subject, 10% (or more) of the overall weighting of this subject is based on individual assessment concerning technology-related knowledge.</p>								
<b>Student Study Effort Expected</b>	Class contact:							
	▪ Lectures / Tutorials		39 Hrs.					
	Other student study effort:							
	▪ Readings / Homework / Projects / Case studies		87 Hrs.					
	Total student study effort		126 Hrs.					
<b>Reading List and References</b>	<p>Simchi-Levi, Kaminsky and Simchi-Levi, <i>Designing and Managing the Supply Chain: Concepts, Strategies and Case Studies</i>, 3<sup>rd</sup> Edition, McGraw-Hill, 2008.</p> <p>Cachon and Terwiesch, <i>Matching Supply with Demand: An Introduction to Operations Management</i>, 4<sup>th</sup> Edition, McGraw-Hill Education, 2019.</p> <p>Chopra, <i>Supply Chain Management: Strategy, Planning, and Operation</i>, 7<sup>th</sup> Edition, Pearson, 2019.</p>							