

# The Hong Kong Polytechnic University

## Subject Description Form

<b>Subject Code</b>	LGT5067
<b>Subject Title</b>	Intermodal Transport 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 help students understand</p> <ul style="list-style-type: none"> <li>• the methods and tools for depicting and designing effective intermodal transport chains</li> <li>• the evolution of supply chain, impact of ecommerce, globalization and other factors and trends on the intermodal transport</li> <li>• the operations of intermodal transport and various concepts of freight transport chains</li> <li>• the containerization and different intermodal transport equipment in intermodal transport</li> <li>• the economic, political, regulatory, infrastructure and technological barriers to the adoption of intermodal transport and solutions</li> <li>• latest strategies and case studies of intermodal transport in different industries and continents</li> </ul>
<b>Intended Learning Outcomes</b>	<p>Upon completion of the subject, students will be able to:</p> <ol style="list-style-type: none"> <li>a. demonstrate relevant knowledge and understanding of the concepts of intermodal transport and the business environment in which they operated;</li> <li>b. understand the current developments of relevant economic, political, regulatory, infrastructure and technological issues in relation to the operations and management of intermodal transport;</li> <li>c. design and evaluate intermodalism in an integrated form which reflects sound business practices;</li> <li>d. understand the use of different load units, handling equipment and transport modes in intermodal transport.</li> </ol>
<b>Subject Synopsis/ Indicative Syllabus</b>	<ul style="list-style-type: none"> <li>• Introduction of the freight transport services</li> <li>• Transportation modes, modal competition and modal shift</li> <li>• Concepts of freight transport chains, including multimodal, intermodal, combined modal, co-modal, synchromodal transport</li> <li>• Depicting the performance of intermodal transport</li> <li>• Concepts of fitness and friction</li> </ul>

	<ul style="list-style-type: none"> <li>• Intermodal transport and containerization</li> <li>• Intermodal transport equipment</li> <li>• Design of intermodal transport networks</li> <li>• Challenges to the adoption of intermodal transport</li> <li>• Modifying the supply chain to suit intermodal transport</li> <li>• Modelling of intermodal system</li> </ul>																																						
<b>Teaching/Learning Methodology</b>	Lectures supplemented by class activities such as tutorials, seminar, case discussion, and presentations. In the lectures the general principles of the syllabus will be presented and developed. Students are expected to take an active part in the learning processes.																																						
<b>Assessment Methods in Alignment with Intended Learning Outcomes</b>	<table border="1"> <thead> <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> </thead> <tbody> <tr> <td>Coursework</td> <td>50%</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td></td> <td></td> </tr> <tr> <td>Examination</td> <td>50%</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> </tbody> </table>	Specific assessment methods/tasks	% weighting	Intended subject learning outcomes to be assessed (Please tick as appropriate)						a	b	c	d			Coursework	50%	✓	✓	✓	✓			Examination	50%	✓	✓	✓	✓			Total	100 %						
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<b>Reading List and References</b>	<p><b>Recommended textbooks</b></p> <p>Reis, Vasco, Macario, Rosario, <i>Intermodal Freight Transportation</i>, Elsevier, San Diego, 2019</p> <p>Monios, Jason, Bergqvist, Rickard, <i>Intermodal Freight Transport and Logistics</i>, CRC Press, London, 2017</p> <p><b>References</b></p> <p>Rodrigue, Jean-Paul, Fifth Edition, <i>The Geography of Transport Systems</i>, Routledge, New York, 2020</p> <p>Rodrigue, Jean-Paul, <i>Port Economics, Management and Policy</i>, Routledge, New York, 2021</p>																																						

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