

The Hong Kong Polytechnic University

Subject Description Form

Subject Code	LGT3505
Subject Title	Introduction to Air Cargo
Credit Value	3
Level	3
Normal Duration	1-semester
Pre-requisite	Nil
Role and Purposes	To enable students to develop a wide understanding of the basic air cargo operation.
Subject Learning Outcomes	<p>Upon completion of the subject, students will be able to:</p> <ol style="list-style-type: none">Obtain a basic understanding to the air cargo business and operations in Hong Kong and Worldwide. They will gain a basic knowledge of the cargo operations work flow.Get a basic understanding to the cargo acceptance and different category of air cargo commodities, and a basic understanding of the relationship and responsibilities between different parties e.g. shippers, forwarders, etc.Know the importance of safety and security in air cargo operations within the industry and the measures taken by the operators to ensure 100% safetyUnderstand the key economic and operational regulations in the industry, and appreciate the principles and justifications for such regulations.Use some of the basic economic analysis skills such as demand modeling, cost analysis and productivity analysis in the analysis of business related issues in the air cargo market.
Subject Synopsis/ Indicative Syllabus	<p>Introduction to air transportation</p> <p>A brief introduction to the history of development of air transportation, including civil and military, passenger, cargo and general aviation</p> <p>Air cargo in a context</p> <p>Characteristics of air cargo business and difference with other mode of cargo transport</p> <p>Glossary of air cargo terms</p> <p>Brief introduction to the usual air cargo terms, nomenclature of different parties and usual jaroons that to be used in this industry</p>

	<p>Cargo operations flow Introduction to the operational flow, from acceptance to delivery</p> <p>Parties involved in cargo operations Based on the above, further investigate parties that will be involved in the operations, and different roles in between</p> <p>Air cargo operational process Introduce different documents e.g. shipper declaration, air waybill that will be used in air cargo transportation, special cargo handling.</p> <p>Basics air cargo tariff and revenue management Brief introduction to air cargo tariff and different rates of acceptance</p> <p>Introduction to Cargo Acceptance and workflow</p> <p>Special Cargo Handling – Non Dangerous Goods (D.G.) Introduce different types of special cargo, non-D.G. types and the handling of them</p> <p>Special Cargo Handling – Dangerous Goods and classes</p> <p>Aircraft types, holds and compartments Introduction to different aircraft types and cargo holds and compartment, weight constraints, etc.</p> <p>Air Cargo Safety & Security Roles and responsibilities of different parties within the industry</p> <p>Cargo Claims Concept Introduction to claims basic and the two major international Conventions for claims handling</p> <p>Further development in air cargo Brief introduction to the development of air cargo business in 21st century, A380 freighters, RFID, EDI clearance, etc.</p>
Teaching/Learning Methodology	<p>Students are engaged in tutorial/workshop sessions, putting new skills and knowledge to work and measuring and evaluating the results. The course content is broad, giving students an excellent understanding of the operation and management of air cargo.</p>

Assessment Methods in Alignment with Intended Learning Outcomes	Specific assessment methods/tasks	% weighting	Intended subject learning outcomes to be assessed (Please tick as appropriate)						
			a	b	c	d	e		
	Coursework	50%	✓		✓	✓			
	Examination	50%		✓	✓	✓			
	Total	100 %							
	Explanation of the appropriateness of the assessment methods in assessing the intended learning outcomes: The coursework includes writing a project report (40%) and a group project presentation (10%). Students are required to apply some basic analyzing skills learnt in this course in their project study. Examination is mainly used to test students’ knowledge on quantitative analysis and calculation. Some common practices used in the industry will also be tested. <i>To pass this subject, students are required to obtain Grade D or above in BOTH the Continuous Assessment and Exam components.</i>								
Student Study Effort Expected	Class contact:								
	▪ Lecture		26 Hrs.						
	▪ Tutorial		13 Hrs.						
	Other student study effort:								
	▪ Team Project		45 Hrs.						
	▪ Reading		42 Hrs.						
	Total student study effort		126 Hrs.						
Reading List and References	<u>Recommended reading</u>								
	Shaw, Stephen, <i>Airline Marketing and Management</i> , 5 th Edition, Ashgate 2011 Wensveen John; <i>Air Transportation – A Management Perspective</i> , Ashgate, 2011 Ashford, Norman, <i>Airport Operations</i> , 3 rd Edition, McGraw Hill 2013 IATA Publications, <i>Principles of Cargo Handling</i> , 1 st Edition, IATA 1991 Lumpé, Marc-Philippe, <i>Leadership and organization in the aviation industry</i> , Ashgate, 2008 <i>Rodrigues, Clarence C, Commercial aviation safety, McGraw-Hill Professional, 5th, 2012</i> O’Connell JF, <i>Air transport in the 21st century key strategic developments</i> , Ashgate,2011								

	<p>張有恆, <i>航空業經營與管理</i>, 台灣 - 華泰文化事業公司 2003</p> <p>劉得一, <i>民航概論 (An Introduction to Civil Aviation)</i>, 北京 - 中國民航出版社, 2000</p> <p>李軍玲, <i>國際貨運基礎教程 (International Cargo Basic Course)</i>, 北京 - 中國民航出版社, 2000</p> <p><u>Other Specialist Publications</u></p> <p>Air Transport World</p> <p>Airline Business</p> <p>Oriental Aviation</p> <p>物流與技術</p>
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