The Hong Kong Polytechnic University

Subject Description Form

Subject Code	LGT4800		
Subject Title	Airline Strategy and Management		
Credit Value	3		
Level	4		
Normal Duration	1-semester		
Pre-requisite	Nil		
Objectives	Airlines operate in highly complex and competitive market environments in which successful businesses depend crucially on the understanding of how rival airlines, partner airlines, airports, rival rail operating companies and even governments interact strategically. This understanding then helps to anticipate their behavior and can be used to develop own strategies that can ensure the successful and sustainable operations. The main purpose of this subject to sharpen the students' capability to think strategically and to use this skill to evaluate and develop own successful airline strategies.		
Intended Learning Outcomes	 Upon completion of the subject, students will be able to: a. understand economic concepts and theories behind airline business and develop approaches to analyzing and formulating airline strategies. b. develop awareness to various issues involved in airline business practice. c. understand the means by which airlines create values. (BBA outcome 6) d. demonstrate an understanding on the applications of data science in airline business. 		
Subject Synopsis/ Indicative Syllabus	 Airline industry and business environment: major external influential factors and constrains operating performance: yield, unit cost, load factor, traffic, output Porter's five forces Airline business models deregulation and liberalization and changes in airline business models Porter's competitive strategy full-service airlines vs. low-cost airlines, low-cost subsidiaries Air travel demand definition of markets drivers for airline demand demand elasticities Revenue-maximizing pricing strategies market segmentation and price discrimination basics of revenue management Airline cost structures and optimal output 		

Teaching/Learning Methodology	 fixed vs. variable costs, marginal cost, economies of scale and density, productivity profit-maximizing output frequency versus aircraft size Network strategies hub-and-spoke vs. point-to-point hubbing strategies Airline competition and cooperation frequency and market share strategies to deal with new entrants market structure and competition, entry barriers competition policy global alliances, code-sharing, mergers and acquisitions Application of data science in airline management A combination of lectures, tutorials, case studies, group discussions and students-directed learning activities will be included in this subject. 					
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
	Coursework	50%	✓	√	✓	✓
	Examination	50%	√	✓	√	√
	Total	100 %		<u>'</u>	•	
	Explanation of the appropriateness of the assessment methods in assessing the intended learning outcomes:					

Student Study Effort Expected	Class contact:	
	■ Lecture	26 Hrs.
	Tutorial	13 Hrs.
	Other student study effort:	
	 Self study 	87 Hrs.
	Total student study effort	126 Hrs.
Reading List and References	Recommended Textbooks	

- Cook, G. N. and Billig, B. (2017). *Airline Operations and Management*, 1st ed., Florence: Routledge.
- Holloway, Stephen (2016) *Straight and Level: Practical Airline Economics (3rd Edition)*, Ashgate: Aldershot, UK.

Useful References

- Delfmann, W., Baum, H., Auerbach, S. and Albers, S. (2017). *Strategic Management in the Aviation Industry*, Ashgate.
- Doganis, R. (2019) Flying Off Course Airline Economics and Marketing (5th Edition), Routledge, London.
- Wensveen, John G. (2016). *Air Transportation: A Management Perspective*, Ashgate.
- Chung, S.-H., Ma, H.-L., Hansen, M. and Choi, T.-M. (2020) Data science and analytics in aviation, *Transportation Research Part E: Logistics and Transportation Review*, 134, 101837.