

Subject Code	LGT5014
Subject Title	Air Transport Logistics and Management
Credit Value	3
Level	5
Normal Duration	1-semester
Pre-requisite	Nil
Role and Purposes	<p>To provide students with an insight and understanding of the economic principles and key issues in the logistics operation and management of air transport.</p> <p>This subject contributes to the following Intended Learning Outcomes for the MSc programme(s):</p> <p>MSc in International Shipping and Transport Logistics (Full time Stream)</p> <p>#3: Resolve economic problems encountered in international transport</p>
Subject Learning Outcomes	<p>Upon completion of the subject, students will be able to:</p> <ol style="list-style-type: none"> Appreciate the dynamic nature of the air transport logistic industry. Understand the basics of aviation economics, including impacts of the external forces (economic, geographic, demographic, legal, political, environmental and technological), and the internal forces (economic, competitive, operational) on the air transport logistics business. Use data to conduct cost-benefit analysis and model demand in air transport markets. Understand the basics of air cargo operation, airport operation and applications of artificial intelligence in air transport.
Subject Synopsis/ Indicative Syllabus	<p>The following topics will be covered in various extents and forms. The instructor may change the order and weights of these topics wherever fits.</p> <ul style="list-style-type: none"> Economic impacts and current issues in the air transport industry Influential factors of aviation markets Air transport demand Costs and production of air transport services Intermodal issues in the air transport industry Air cargo operation Air freight forwarding / Express business model Airport operation Low-cost carriers Applications of artificial intelligence in air transport

Teaching/Learning Methodology	Lectures will be used to present the theoretical foundations and how alternative skills can be applied to particular cases. Mini cases shall be used to give the students an updated view on the industry practices. Students are required to use the knowledge and methodology learned in this course to conduct projects which are related to some important issues in the aviation industry.																																													
Assessment Methods in Alignment with Intended Learning Outcomes	<table border="1" data-bbox="531 445 1481 855"> <thead> <tr> <th data-bbox="531 445 836 647" rowspan="2">Specific assessment methods/tasks</th> <th data-bbox="836 445 991 647" rowspan="2">% weighting</th> <th colspan="6" data-bbox="991 445 1481 577">Intended subject learning outcomes to be assessed (Please tick as appropriate)</th> </tr> <tr> <th data-bbox="991 577 1070 647">a</th> <th data-bbox="1070 577 1150 647">b</th> <th data-bbox="1150 577 1230 647">c</th> <th data-bbox="1230 577 1310 647">d</th> <th data-bbox="1310 577 1390 647"></th> <th data-bbox="1390 577 1481 647"></th> </tr> </thead> <tbody> <tr> <td data-bbox="531 647 836 714">Coursework</td> <td data-bbox="836 647 991 714">50%</td> <td data-bbox="991 647 1070 714">✓</td> <td data-bbox="1070 647 1150 714">✓</td> <td data-bbox="1150 647 1230 714">✓</td> <td data-bbox="1230 647 1310 714">✓</td> <td data-bbox="1310 647 1390 714"></td> <td data-bbox="1390 647 1481 714"></td> </tr> <tr> <td data-bbox="531 714 836 781">Examination</td> <td data-bbox="836 714 991 781">50%</td> <td data-bbox="991 714 1070 781">✓</td> <td data-bbox="1070 714 1150 781">✓</td> <td data-bbox="1150 714 1230 781">✓</td> <td data-bbox="1230 714 1310 781">✓</td> <td data-bbox="1310 714 1390 781"></td> <td data-bbox="1390 714 1481 781"></td> </tr> <tr> <td data-bbox="531 781 836 855">Total</td> <td data-bbox="836 781 991 855">100 %</td> <td colspan="6" data-bbox="991 781 1481 855"></td> </tr> </tbody> </table> <p data-bbox="531 902 1458 969">Explanation of the appropriateness of the assessment methods in assessing the intended learning outcomes:</p>								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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Student Study Effort Expected	Class contact:																																													
	▪ Lectures / Tutorials							39 Hrs.																																						
	Other student study effort:																																													
	▪ Self study							87 Hrs.																																						
	Total student study effort							126 Hrs.																																						
Reading List and References	<p data-bbox="531 1507 596 1541">Book</p> <p data-bbox="531 1559 1481 1626">Button, K. and Stough, R. (2000). <i>Air Transport Networks: Theory and Policy Implications</i>, Cheltenham, Northampton, Mass.: Edward Elgar Pub.</p> <p data-bbox="531 1659 1481 1727">De Neufville, R., Odoni, A., Belobaba, P. and Reynolds, T. (2013). <i>Airport Systems – Planning, Design and Management</i> (2 ed.), McGraw-Hill.</p> <p data-bbox="531 1760 1481 1827">Doganis, R. (2019), <i>Flying Off Course: The Economics of International Airlines</i>, 5th edition, Routledge.</p> <p data-bbox="531 1861 1481 1928">Morrell, P. (2019), <i>Moving Boxes by Air: The Economics of International Air cargo</i>, 2nd edition, Abingdon, Oxon : Routledge</p> <p data-bbox="531 1962 1481 2029">Oum, T.H, and Yu, C. (1998) <i>Winning Airlines: Productivity and Cost Competitiveness of the World's Major Airlines</i>, Kluwer Academic, Boston.</p>																																													

	<p>Oum, T.H., Park, J. H. and Zhang, A. (2000), <i>Globalization and Strategic Alliances: The Case of the Airline Industry</i>, Pergamon for Elsevier Science.</p> <p>Vasigh, B., Fleming, K. and Tacker, T. (2008), <i>Introduction to Air Transport Economics</i>, Ashgate</p> <p>Wensveen, J. G. (2011). <i>Air Transportation: A Management Perspective</i> (7th ed.), Ashgate.</p> <p>Journals Air Cargo News Airline Business Aviation Strategy Flight International Aviation Economics Journal of Air Transport Management</p>
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