

# The Hong Kong Polytechnic University

## Subject Description Form

<b>Subject Code</b>	LGT5164
<b>Subject Title</b>	Aviation Safety Management
<b>Credit Value</b>	3
<b>Level</b>	5
<b>Normal Duration</b>	1-semester
<b>Pre-requisite</b>	Nil
<b>Role and Purposes</b>	To provide the student with an understanding of the key issues in aviation safety management, the implementation of Safety Management Systems, and how safety is managed in airlines, airports and aviation-related companies.
<b>Subject Learning Outcomes</b>	Upon completion of the subject, students will be able to:  a. Describe the fundamental concepts behind Safety Management Systems (SMS), as defined by ICAO and other parties.  b. Select and implement techniques for the identification and management of hazards and risks.  c. Understand key issues in the implementation of Safety Management Systems  d. Critically assess the ways in which safety is measured and managed in airport, airline and other aviation operations.
<b>Subject Synopsis/ Indicative Syllabus</b>	<ul style="list-style-type: none"><li>• Safety management philosophy and implementation</li><li>• Safety supervision in civil aviation</li><li>• Principles of quality management</li><li>• Hazard identification</li><li>• Process-based safety risk management</li><li>• Crisis management</li><li>• Emergency response planning</li><li>• Safety culture</li><li>• Human factors</li><li>• Managing the Safety Management Systems</li><li>• Implementing an Safety Management Systems</li></ul>

<b>Teaching/Learning Methodology</b>	A combination of lectures, seminars, case studies, group workshops and students-directed learning activities will be included in this subject.																																												
<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> <p>Explanation of the appropriateness of the assessment methods in assessing the intended learning outcomes:</p> <p><i>To pass this subject, students are required to obtain Grade D or above in BOTH the Continuous Assessment and Exam components.</i></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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<b>Student Study Effort Expected</b>	Class contact:																																												
	▪ Lectures / Tutorials						39 Hrs.																																						
	Other student study effort:																																												
	▪ Self study						87 Hrs.																																						
	Total student study effort						126 Hrs.																																						
<b>Reading List and References</b>	<p><b>Books</b></p> <ul style="list-style-type: none"> <li>• Ferguson, M. and Nelson, S. (2013) <i>Aviation Safety: A Balanced Industry Approach</i>, Cengage Learning.</li> <li>• ICAO (2009) <i>Safety Management Manual</i> (2<sup>nd</sup> Edition), Doc. 9859, Montreal – Downloadable from <a href="http://www.icao.int/anb/safetymanagement/documents.html">http://www.icao.int/anb/safetymanagement/documents.html</a>.</li> <li>• Rodingues, C. and Cusick, S. (2011). <i>Commercial Aviation Safety</i>, 5<sup>th</sup> Edition, McGraw-Hill Professional.</li> <li>• Stolzer, A.J., Halford, C.D. and Goglia, J.J. (2008) <i>Safety Management Systems in Aviation</i>, Ashgate, Aldershot UK.</li> <li>• Stolzer, A.J., Halford, C.D. and Goglia, J.J. (2013), <i>Implementing Safety Management Systems in Aviation</i>, Ashgate, Aldershot UK.</li> </ul>																																												