The Hong Kong Polytechnic University

Subject Description Form

Subject Code	LGT3027
Subject Title	Air Flight Operations Management
Credit Value	3
Level	3
Normal Duration	1-semester
Pre-requisite	Nil
Objectives	To enable students to develop a wide understanding of the work flow processes and protocols of an international Airport / Airline Flight Operations Centre.
Subject Learning Outcomes	Upon completion of the subject, students will be able to: (a) Gain a basic knowledge of commercial aviation dispatch procedures, work rules, local and international regulations; (b) Learn about the duties and responsibilities of the flight operations officer (dispatcher) and other positions within the Air Operation Center; (c) Able to communicate with the terms and language used in the Airline's operation department; (d) Comprehend common practices and rules governing international airline flight operation; (e) Appreciate the interaction of Airline's flight operation; (f) Identify problems and solutions in Airline's flight operation. Studying this subject will help students in development of their global outlook, critical thinking and social responsibility.
Subject Synopsis/ Indicative Syllabus	1. Form of the Earth; Communications, and basic navigation; 2. Aviation Meteorology; 3. Basic aerodynamics and aircraft performance; 4. Air law, Rules of the Air, and governing agencies; 5. Aviation Weather Reports, Weather Charts, and Weather Minima;6. Radio and Navigation Aids 7. Flight Dispatch documentation and Crew briefing8. Standard flight planning procedures and protocols; 9. Introduction to ETOPS/EDTO 10. Future Air Navigation System (CNS/ATM)
Teaching/Learning Methodology	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 what is expected from Airline Operation Center personnel.

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<tr><td>Assessment Methods in Alignment with Intended Learning Outcomes</td><td>
<table>
<tr><td rowspan="2">Specific assessment methods/tasks</td><td rowspan="2">% weighting</td><td colspan="6">Intended subject learning outcomes to be assessed (Please tick as appropriate)</td></tr>
<tr><td>a</td><td>b</td><td>c</td><td>d</td><td>e</td><td>f</td></tr>
<tr><td>Coursework</td><td>40%</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td></tr>
<tr><td>Examination</td><td>60%</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>
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Explanation of the appropriateness of the assessment methods in assessing the intended learning outcomes.
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<tr><td>Student Study Effort Expected</td><td>
<table>
<tr><td>Class contact:</td><td></td></tr>
<tr><td>▪ Lecture</td><td>26 Hrs.</td></tr>
<tr><td>▪ Tutorial</td><td>13 Hrs.</td></tr>
<tr><td>Other student study effort:</td><td></td></tr>
<tr><td>▪ Coursework / Team Project</td><td>45 Hrs.</td></tr>
<tr><td>▪ Reading</td><td>42 Hrs.</td></tr>
<tr><td>Total student study effort</td><td>126 Hrs.</td></tr>
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</td></tr>
<tr><td>Reading List and References</td><td>
1. Weather Reports, Forecasts & Flight Planning; Terry T. Lankford; 3rd Edition; McGraw-Hill.
2. Airport Operations; Norman Ashford, H.P. Martin Stanton, Cliffon A. Moore; 3rd Edition; McGraw-Hill.
3. Flight Without Formulae; A.C. Kernode; 5th Edition; Pitman Publishing Limited.
4. Aviation Weather; Peter F. Lester; 3rd Edition; Jeppesen.
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