

# The Hong Kong Polytechnic University

## Subject Description Form

<b>Subject Code</b>	LGT4101
<b>Subject Title</b>	Practice of Management Decision Analysis
<b>Credit Value</b>	3
<b>Level</b>	4
<b>Normal Duration</b>	1-semester
<b>Pre-requisite</b>	LGT2106 Principles of Operations Management <b>AND</b> LGT3102 Management Science
<b>Role and Purposes</b>	Students learn some quantitative techniques from the pre-requisites, but quite often are not skillful in the application to real life problems. Sometimes they cannot identify that a certain technique may be applied under certain situations. Sometimes they do not know how to start tackling a problem which seems too complex to them. In other situations they cannot list down all relevant objectives and hence cannot compare which proposed solution seems to be the best. The purpose of this subject is helping them to accumulate practical experience to solve real life problems, by applying and consolidating the quantitative methods learnt from the prerequisites. It contributes to the BBA Programme Outcomes 6 & 7, to help students apply information systems and make effective decisions, and understand the operation of the business.
<b>Subject Learning Outcomes</b>	Upon completion of the subject, students will be able to: <ul style="list-style-type: none"> <li>a. Understand the range of practical application of management decision analysis techniques, the characteristics of successful application, the scope of the decisions, and the limitations of the techniques. <b>(Outcome 6)</b></li> <li>b. Develop skills in analysing complex operations problems, using quantitative techniques as appropriate. <b>(Outcome 6)</b></li> <li>c. Tackle a management decision situation from different angles of view, and able to evaluate the outcomes of different decisions. <b>(Outcome 6)</b></li> </ul>
<b>Subject Synopsis/ Indicative Syllabus</b>	<p><b>The methodology of decision analysis techniques</b></p> <p>Debates about the relevance of techniques and the traditional scientific approach; new directions.</p> <p><b>Survey of published literature</b></p> <p>Through reading literature, learn different applications to real problems; comment the papers critically and suggest ways for further study.</p> <p><b>Case analysis</b></p> <p>Modelling a problem situation; using appropriate techniques to solve it; discuss the implications if situation changes slightly.</p>

<b>Teaching/Learning Methodology</b>	To examine the methodological debates and developments that are taking place, there will be lectures, directed reading and seminars: In examining published papers, students will make presentations based on reviews and analysis of the literature, and engage in discussion in seminar format. For case analysis, students will work individually and in groups, using appropriate computer software, solving the problems and writing brief reports.																																		
<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="5">Intended subject learning outcomes to be assessed (Please tick as appropriate)</th> </tr> <tr> <th>a</th> <th>b</th> <th>c</th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>Continuous Assessment</td> <td>100 %</td> <td>✓</td> <td>✓</td> <td>✓</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Total</td> <td>100 %</td> <td colspan="5"></td> </tr> </tbody> </table> <p>Explanation of the appropriateness of the assessment methods in assessing the intended learning outcomes:</p> <p>Student will learn how to deal with real life problems through case studies, in the form of group or individual work. They will be guided through discussions in class, and hence class participation is so important in this subject. Students' effort will be observed and assessed.</p>							Specific assessment methods/tasks	% weighting	Intended subject learning outcomes to be assessed (Please tick as appropriate)					a	b	c				Continuous Assessment	100 %	✓	✓	✓				Total	100 %					
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Total	100 %																																		
<b>Student Study Effort Expected</b>	<p>Class contact:</p> <ul style="list-style-type: none"> <li>▪ Lectures</li> <li>▪ Seminars</li> </ul> <p>Other student study effort:</p> <ul style="list-style-type: none"> <li>▪ Prepare the cases analysis</li> </ul> <p>Total student study effort</p>						<p>26 Hrs.</p> <p>13 Hrs.</p> <p>87 Hrs.</p> <p>126 Hrs.</p>																												
<b>Reading List and References</b>	<p><b><u>References</u></b></p> <p>Assad, A.A., Wasil, Edward A. and Lilien, G.L. (1992), <i>Excellence in Management Science Practice</i>, Prentice Hall.</p> <p>Chacko, G.K. (1993), <i>Operations Research/Management Science: Case Studies in Decision Making under Structured Uncertainty</i>, McGraw-Hill.</p> <p>Dyer, J.S. and Shapiro, R.D. (1982), <i>Management Science/Operations Research: Cases and Readings</i>, Wiley.</p> <p>Jackson, M.C. and Keys, P. (ed.) (1987), <i>New Directions in Management Science</i>, Gower.</p> <p>Render, B., Stair, R.M. Jr. and Greenberg, I. (1990), <i>Cases and Readings in Management Science</i>, 2nd ed., Allyn and Bacon.</p>																																		

	<p><b><u>Journals</u></b></p>
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Interfaces

Journal of the Operational Research Society

European Journal of Operational Research

Management Science

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