

# The Hong Kong Polytechnic University

## Subject Description Form

<b>Subject Code</b>	LGT5113
<b>Subject Title</b>	Enterprise Resource Planning
<b>Credit Value</b>	3
<b>Level</b>	5
<b>Normal Duration</b>	One Semester
<b>Pre-requisite / Co-requisite/ Exclusion</b>	Nil
<b>Objectives</b>	<p>To enable students to:</p> <ul style="list-style-type: none"><li>• Understand the basic concepts and technologies underpinning ERP systems;</li><li>• Become familiar with the basic usages of ERP systems, such as SAP;</li><li>• Analyze important issues involved in a firm's adoption of an ERP system;</li><li>• Develop the ability to leverage the full range of benefits derived from using ERP systems and/or other information technologies in real-world business scenarios.</li></ul> <p>This subject contributes to the following Intended Learning Outcomes for the following programme(s):</p> <p>MSc in Operations Management</p> <p>#2: Develop the specific operations management knowledge</p>
<b>Intended Learning Outcomes</b>	<p>Upon completion of the subject, students will be able to:</p> <ol style="list-style-type: none"><li>a. Demonstrate a clear understanding of the relevant definitions, importance, potential business values and technologies of ERP systems;</li><li>b. Demonstrate a strong ability to learn the various applications of ERP systems and/or other information technologies in business;</li><li>c. Demonstrate a clear understanding of the life-cycle model of the process that a company goes through using ERP systems;</li><li>d. Synthesize the concepts and tools studied in class so as to develop best practices in using ERP systems to enhance real-life businesses.</li></ol>

<b>Subject Synopsis/ Indicative Syllabus</b>			
	Topics	Sub-topics	Tutorial Topics
	Introduction to ERP, and System and Technology Background	Introduction to Course Introduction to ERP Introduction to ERP Life Cycle	Tutorial 1: SAP Demonstration, UAC Registration, Business Process and Business Functions
		ERP Technology Background: IT Infrastructure, SOA, and Cloud Computing ERP Market Awareness and Future Trends	Tutorial 2: SAP Startup and Navigation
	Management with ERP systems (Part 1)	Business Data Management in ERP	Tutorial 3: Master Data in SAP
		Sales and marketing management with ERP	Tutorials 4: Sales and Distribution in SAP
	ERP Life Cycle (Part 1)	ERP Initiatives	
		ERP Selection	
	Management with ERP systems (Part 2)	Procurement management with ERP	Tutorial 5: Material Management in SAP
		Production Management and Planning with ERP ERP for Business Analytics	Tutorial 6: Production Planning in SAP
	ERP Life Cycle (Part 2)	ERP Implementation	
		ERP After-Implementation	
	Project Presentation and Course Review	Course Review	
<b>Teaching/Learning Methodology</b>	<ul style="list-style-type: none"> <li>▪ During lectures, basic concepts of ERP and ERP systems will be introduced, and case studies will be discussed.</li> </ul>		

	<ul style="list-style-type: none"> <li>During tutorials, students will be guided to practice applications and usages of ERP systems in a computer lab.</li> </ul>																																						
<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>1. Coursework</td> <td>50%</td> <td></td> <td>✓</td> <td>✓</td> <td>✓</td> <td></td> <td></td> </tr> <tr> <td>2. 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>	Specific assessment methods/tasks	% weighting	Intended subject learning outcomes to be assessed (Please tick as appropriate)						a	b	c	d			1. Coursework	50%		✓	✓	✓			2. Examination	50%	✓	✓	✓				Total	100 %						
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<p>Explanation of the appropriateness of the assessment methods in assessing the intended learning outcomes:</p> <p>The coursework includes a series of tutorial exercises of using ERP systems, assignments and case studies, and a group project about ERP implementation in real business. They are used to assess the intended outcomes 1-4. The final exam is based on questions relevant to basic concepts of ERP and a case study about the ERP life cycle, which are relevant to intended outcomes 1-3.</p> <p><i>To reflect the significant technology content in this subject, 10% (or more) of the overall weighting of this subject is based on individual assessment concerning technology-related knowledge.</i></p>																																							
<b>Student Study Effort Expected</b>	<p>Class contact:</p> <table border="1"> <tr> <td>Lectures / tutorials</td> <td>39 Hrs.</td> </tr> <tr> <td colspan="2">Other student study effort:</td> </tr> <tr> <td>Group Project</td> <td>45 Hrs</td> </tr> <tr> <td>Self-Study</td> <td>42 Hrs</td> </tr> <tr> <td>Total student study effort</td> <td>126 Hrs</td> </tr> </table>	Lectures / tutorials	39 Hrs.	Other student study effort:		Group Project	45 Hrs	Self-Study	42 Hrs	Total student study effort	126 Hrs																												
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<b>Textbooks</b>	<p>Monk, Ellen and Wagner, Bret J. (2014) Concepts in Enterprise Resource Planning, 4rd Edition, Course Technology Cengage Learning (recommended)</p> <p>O’Leary, Daniel E. (2000) Enterprise Resource Planning Systems: Systems, Life cycle, Electronic Commerce, and Risk, Cambridge University Press (recommended)</p>																																						

	<p>Bradford, Marianne. (2020) Modern ERP: Select, Implement &amp; Use: Today's Advanced Business Systems.</p> <p>Blokdyk, Gerardus. (2020) Enterprise Resource Planning A Complete Guide.</p> <p>Simon, Phil. (2011) Why New Systems Fail, Revised Edition, Course Technology Cengage Learning</p> <p>Hamilton, Scott (2003) Maximizing Your ERP Systems: a practical guide for managers, Mc Graw Hill</p> <p>Ptak, Carol A. (2004) ERP: Tools, techniques, and Applications for Integrating the Supply Chain, 2nd Edition, St. Lucie Press</p>
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