

The Hong Kong Polytechnic University

Subject Description Form

Subject Code	LGT3108
Subject Title	Introduction to Enterprise Resource Planning System
Credit Value	3
Level	3
Normal Duration	1-semester
Pre-requisite / Co-requisite/ Exclusion	Nil
Objectives	<p>This course is to introduce the most important issues, technologies, usages, and concepts associated with ERP systems and their applications in business firms, where a commercial ERP system, such as SAP, will be used as a learning platform for students.</p> <p>The objective is to enable students to:</p> <ol style="list-style-type: none">1. understand the basic concepts and up-to-date technologies (such as cloud computing and business intelligence) of ERP systems;2. be familiar with the basic usage of ERP systems, such as SAP, for various business processes;3. be able to analyze important issues in implementing an ERP system in a firm;4. develop ability and confidence in exploiting benefits from ERP systems and/or other information technology for business .
Subject Learning Outcomes	<p>Upon completion of the subject, students will be able to:</p> <ol style="list-style-type: none">a. To demonstrate a clear and relevant understanding of the definitions, importance, potential business values, and relevant technologies of ERP systems;b. To demonstrate the ability in learning the applications of ERP and using the up-to-date ERP systems (such as SAP) for businessc. To demonstrate a clear understanding of the life-cycle model of the process that a firm goes through with ERP systems

Subject Synopsis/ Indicative Syllabus	Topics	Sub-topics	Remarks
		Introduction to ERP	Introduction to the course Introduction to ERP and ERP Life Cycle
ERP Technology, Market Awareness, and Future Trends Cloud-based ERP			
Business Functions and Business Process Business Process Modeling			
Management with ERP systems		Data Management in ERP	Lectures and Lab Tutorials, with a commercial ERP system, such as SAP, as a learning platform for students' practice and for the lecturer's demonstration
		Sales and marketing management with ERP	
		Procurement management with ERP	
		Production Management with ERP	
Managing the Life Cycle of an ERP Project		ERP Initiatives & Selection	Lectures, Case Study, and Group Project
		ERP Design and Implementation	
		After ERP going live	
Selected advanced topics on ERP		Applications of Business Analytics and Intelligence with ERP	Lectures, Case Study, Demonstration, and Site visit/Invited speaker
Teaching/Learning Methodology		<ul style="list-style-type: none"> ▪ During lectures, basic concepts of ERP and ERP systems will be introduced, and case studies will be discussed. ▪ During tutorials, students will be guided to practice applications and usages of ERP systems in a computer lab. 	

Assessment Methods in Alignment with Intended Learning Outcomes	Specific assessment methods/tasks	% weighting	Intended subject learning outcomes to be assessed (Please tick as appropriate)				
			a	b	c		
	Coursework	50 %	✓	✓			
	Examination	50 %	✓		✓		
	Total	100 %					
	<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, and assignments and case studies. They are used to assess the subject outcomes 1 and 2 respectively. 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 subject outcomes 1 and 3.</p>						
Student Study Effort Expected	Class contact:						
	▪ Lectures		26 Hrs.				
	▪ Tutorials		13 Hrs.				
	Other student study effort:						
	▪ Assignment and Self-Study		45 Hrs.				
	▪ Additional Exercises on ERP after class		42 Hrs.				
	Total student study effort		126 Hrs.				
Reading List and References	<u>Recommended Textbook</u>						
	Monk, Ellen and Wagner, Bret J. (2014) <i>Concepts in Enterprise Resource Planning</i> , 4 th Edition, Course Technology Cengage Learning						
	<u>Useful Reference Textbooks</u>						
Bradford, Marianne. (2015) <i>Modern ERP: Select, Implement & Use: Today's Advanced Business Systems</i> , Third Edition, Lulu							
O'Leary, Daniel E. (2000) <i>Enterprise Resource Planning Systems: Systems, Life cycle, Electronic Commerce, and Risk</i> , Cambridge University Press							