The Hong Kong Polytechnic University

Subject Description Form

<table>
<tr><td>Subject Code</td><td>LGT5152</td></tr>
<tr><td>Subject Title</td><td>Information Systems for Supply Chain Management</td></tr>
<tr><td>Credit Value</td><td>3</td></tr>
<tr><td>Level</td><td>5</td></tr>
<tr><td>Normal Duration</td><td>1-semester</td></tr>
<tr><td>Exclusion</td><td>ISE527 Logistics Information Systems</td></tr>
<tr><td>Role and Purposes</td><td>The objective of this subject is to better prepare the student to meet the following challenges:

• Understand the managerial issues concerning the integration of information systems and supply chain management.
• Provide solutions to the issues which are relevant to the design, management and improvement of IT-enabled supply chain systems.
• Exploit the inherent capabilities of operations, supply chain and information systems, and weave them into an integrated strategy capable of providing competitive advantage for the enterprise.

This subject contributes to the following Intended Learning Outcomes for the MSc programme(s):

MSc in Global Supply Chain Management

#4 Make good use of information technology in supply chain management</td></tr>
<tr><td>Subject Learning Outcomes</td><td>Upon completion of the subject, students will be able to:

a. To demonstrate a clear and relevant understanding of the definitions, importance, potential benefits, and structures of information technology and systems not only from a technical point of view, but also from organizational and management perspectives.

b. Being able to illustrate how the management of supply chains can be enhanced through the use of a number of information technologies and systems.

c. To put together the concepts and tools studied in class to develop best practices of information technology and systems in managing supply chains for real business.</td></tr>
<tr><td>Subject Synopsis/ Indicative Syllabus</td><td><table><tr><th>Topics</th><th>Sub-topics</th></tr><tr><td>Basic Concepts on Information</td><td>Course Introduction</td></tr></table></td></tr>
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Systems and Supply Chain Management	Information systems for global business
Information Technology Infrastructure of Information Systems for Supply Chain Management	IT Fundamentals on hardware and software, networks, and database
Strategic impact of information systems	Information Resources, Strategic value of IS: Porter's Generic Model, Five Force's Model, Value Chain Model, IS for Hyper-competition
Key Applications of Information Technology & Information Systems for Supply Chain Management (1)	Data Processing for Supply Chain Management: RFID, EDI, Data Management
	Achieving Operational Excellence: SRM, ERP, CRM
	E-Commerce: Digital Markets, Digital Goods
Information Systems Project: Development and Management	Designing and Building Information Systems
	IS Project Management
Key Applications of Information Technology & Information Systems for Supply Chain Management (2)	Enhancing Decision Making: Business Intelligence and Decision Support System
Project Presentation and Course Review	

Teaching/Learning Methodology

- During lectures, basic concepts of ERP and ERP systems will be introduced.
- During tutorials, students will be guided to discuss case studies will be discussed.

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 %						

Explanation of the appropriateness of the assessment methods in assessing the intended learning outcomes:

The coursework includes assignments of case studies, and a group project. They are used to assess the intended outcomes 2 and 3 respectively. The final exam is based on questions relevant to basic concepts of ERP and a case study about information system management, which are relevant to intended

	outcomes 1 and 2. *To pass this subject, students are required to obtain Grade D or above in BOTH the Continuous Assessment and Exam components*.	
Student Study Effort Expected	Class contact:	
	▪ Lectures / Tutorials	39 Hrs.
	Other student study effort:	
	▪ Assignment and Self Study	45 Hrs.
	▪ Group Project	42 Hrs.
	Total student study effort	126 Hrs.
Reading List and References	Management Information Systems : Managing the Digital Firm, 14rd Edition, Pearson/Prentice Hall, by Laudon, K.C., and Laudon, J.P., 2015 (Main Textbook) Introduction to Supply Chain Management Technologies, Second Edition, CRC Press, by Ross D.F., 2016 Competing on Analytics: Updated, with a New Introduction: The New Science of Winning, Harvard Business Review Press, by Davenport, T. and Harris, J., 2017	