

The Hong Kong Polytechnic University

Subject Description Form

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| Subject Code | LGT4310 |
| Subject Title | Digital Procurement Management |
| Credit Value | 3 |
| Level | 4 |
| Normal Duration | 1-semester |
| Pre-requisite / Co-requisite/ Exclusion | Nil |
| Objectives | This subject examines digital procurement management as an integration of procurement operations and supplier relationship management through advanced analytics and data-driven optimization that meets customer requirements. Applications of digital procurement management are studied in strategic and supply chain contexts. |
| Intended Learning Outcomes | <p>Upon completion of the subject, students will be able to:</p> <ol style="list-style-type: none"> a. outline the theories of digital procurement in context of interactive relationships with suppliers and supply chain management b. analyze digital procurement operations in assuring supplier quality and maintaining lowest total cost of ownership and use c. evaluate governance and development of supplier relationships that impact digital procurement operations and performance d. examine some applications of digital procurement management in strategic and supply chain contexts e. analyses big data for digital procurement |
| Subject Synopsis/ Indicative Syllabus | <ul style="list-style-type: none"> ▪ Types and characteristics of organisational and a study framework for digital procurement management ▪ Theories of digital procurement in interaction and supply chain contexts ▪ Specification quality and supplier quality control ▪ Cost analysis and price analysis in determining competitive procurement cost ▪ Big data analytics for procurement ▪ Contracting and total cost of ownership and use ▪ Sourcing, supplier evaluation and selection ▪ Benefits of digital procurement ▪ Supplier relationship management and supplier development |

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| | <ul style="list-style-type: none">▪ Procurement and e-procurement▪ Case studies of procurement cost reduction and quality improvement▪ International outsourcing in a strategic and network context▪ Digital procurement management as supply chain management in global business | | | | | | | |
| Teaching/Learning Methodology | Lectures will be used to introduce to students the theory, concept and descriptive cases of the topics. In tutorials, students will be required to participate in discussing context-specific issues. They will also be guided to search new information on the topics. | | | | | | | |
| 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 | d | e | |
| | Continuous Assessment | 50% | ✓ | ✓ | ✓ | ✓ | ✓ | |
| | Participation | 10% | ✓ | ✓ | ✓ | ✓ | ✓ | |
| | Group Assignment | 25% | ✓ | ✓ | ✓ | ✓ | ✓ | |
| | Individual Assignment | 15% | ✓ | ✓ | ✓ | ✓ | ✓ | |
| | Exam | 50% | ✓ | ✓ | ✓ | ✓ | ✓ | |
| | Total | 100 % | | | | | | |
| | Explanation of the appropriateness of the assessment methods in assessing the intended learning outcomes: The achievement of the learning outcomes will be dependent on students’ knowledge in conceptual theories and ability to apply digital procurement management techniques. Since examination is effective in assessing the knowledge level in conceptual theories and continuous assessment (including assignments and projects) is effective in assessing the ability in applying techniques, both methods will be needed to assess the outcomes of this subject,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. | | | | | | | |
| Student Study Effort Expected | Class contact: | | | | | | | |
| | <ul style="list-style-type: none">▪ Lectures | | | | | | 26 Hrs. | |

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| | ▪ Tutorials | 13 Hrs. |
| | Other student study effort: | |
| | ▪ Private studies and group work | 87 Hrs. |
| | Total student study effort | 126 Hrs. |
| Reading List and References | <p><u>Main Reference Books</u></p> <p>Burt, D.N., Petcavage, S.D. and Pinkerton, R.L. (2010), <u>Supply Management</u>, McGraw Hill Irwin.</p> <p>Burt, D., Petcavage, S. and Pinkerton, R. (2012), <u>Proactive Purchasing in Supply Chain: They key to World-Class Procurement</u>, McGraw Hill Irwin.</p> <p>Harris, C., Harris, R. and Streeter, C. (2011), <u>Lean Supplier Development</u>, CRC Press.</p> <p>Johnson, P. (2020). <u>Purchasing and Supply Management (sixteenth edition)</u>, McGraw-Hill Education.</p> <p>Phillips, J. (2014), <u>Building a Digital Analytics Organization: Create Value by Integrating Analytical Processes, Technology, and People into Business Operations</u>, Pearson FT Press</p> <p>Qualman, E, (2012), <u>Digital Leader: 5 Simple Keys to Success and Influence</u>, McGraw Hill Irwin.</p> <p>Weele, A. (2018). <u>Purchasing and Supply Chain Management (seventh edition)</u>, Cengage Learning.</p> <p><u>Main Reference Journals</u></p> <p>International Journal of Operations and Production Management</p> <p>Industrial Marketing Management</p> <p>Journal of Operations Management</p> <p>Journal of Purchasing and Supply Management</p> <p>Journal of Supply Chain Management</p> <p>MIT Sloan Management Review</p> <p>Supply Chain Management: An International Journal</p> <p>Supply Chain Management Review</p> <p>Supply Management (www.supplymanagement.com)</p> | |