

The Hong Kong Polytechnic University

Subject Description Form

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| 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 |
| Role and Purposes | <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. (Outcomes 6 and 11)</p> <p>The objective is to enable students to:</p> <ol style="list-style-type: none">1. understand the basic concepts and technologies of ERP systems (Outcome 6);2. be familiar with the basic usage of ERP systems, such as SAP (Outcome 6), for various business processes (Outcome 9);3. be able to analyze important issues in implementing an ERP system in a firm (Outcome 11);4. develop ability and confidence in exploiting benefits from ERP systems and/or other information technology for business (Outcome 11). |
| 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 | Lectures and Case Study |
| | | ERP Market Awareness- History, Present, and Future | |
| | | 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 | |
| | Accounting, finance, and human resource 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 | Business intelligence with ERP (1): Forecasting and data mining | 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. | |

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| 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> <p><i>To pass this subject, students are required to obtain Grade D or above in BOTH the Continuous Assessment and Exam components.</i></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. (2013) <i>Concepts in Enterprise Resource Planning</i> , 4 th Edition, Course Technology Cengage Learning | | | | | | |
| | <u>Useful Reference Textbooks</u> | | | | | | |
| | O’Leary, Daniel E. (2000) <i>Enterprise Resource Planning Systems: Systems, Life cycle, Electronic Commerce, and Risk</i> , Cambridge University Press | | | | | | |
| | Bradford, Marianne. (2010) <i>Modern ERP: Select, Implement & Use Today's Advanced Business Systems</i> , 2 nd Edition, Lulu | | | | | | |