City University of Hong Kong
Course Syllabus

offered by Department of Management Sciences
with effect from Semester A 2024/25

Part I   Course Overview

Course Title: E-logistics and Enterprise Resource Planning

Course Code: MS6233

Course Duration: One Semester

Credit Units: 3

Level: P6

Medium of Instruction: English

Medium of Assessment: English

Prerequisites:
(Course Code and Title) Nil

Precursors:
(Course Code and Title) Nil

Equivalent Courses:
(Course Code and Title) Nil

Exclusive Courses:
(Course Code and Title) Nil

Part II   Course Details

1.   **Abstract**

This course aims to:
- Provide students with an introduction to the concepts, the development, the implementation, and the applications of enterprise resource planning in logistics and supply chain management in the business sector.
- Develop students' computing and analytical skills in applying enterprise resource planning software to solve real business problems in areas such as logistics and supply chain management.
- Provide students with cutting-edge techniques to structure complex problem situations and solve business problems in areas such as logistics and supply chain management.

2.   **Course Intended Learning Outcomes (CILOs)**
(CILOs state what the student is expected to be able to do at the end of the course according to a given standard of performance.)

No.	CILOs	Weighting (if applicable)	Discovery-enriched curriculum related learning outcomes (please tick where appropriate)		
			A1	*A2*	*A3*
1.	Describe the advantages and disadvantages of applying enterprise resource planning in a company.	15%	✓	✓	
2.	Discuss the impacts of applying enterprise resource planning in logistics and supply chain management of a company and evaluate critical success factors and major challenges faced in implementing enterprise resource planning in a company.	15%	✓	✓	
3.	Analyse business processes in logistics from both multi-disciplinary and inter-disciplinary perspectives.	15%		✓	
4.	Solve real business problems in logistics and supply chain management by applying enterprise resource management skills.	15%		✓	✓
5.	Apply a prominent enterprise resource planning software package to solve problems in logistics and supply chain management.	40%		✓	✓
		100%			

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A1:   Attitude
Develop an attitude of discovery/innovation/creativity, as demonstrated by students possessing a strong sense of curiosity, asking questions actively, challenging assumptions or engaging in inquiry together with teachers.
A2:   Ability
Develop the ability/skill needed to discover/innovate/create, as demonstrated by students possessing critical thinking skills to assess ideas, acquiring research skills, synthesizing knowledge across disciplines or applying academic knowledge to real-life problems.
A3:   *Accomplishments*
Demonstrate accomplishment of discovery/innovation/creativity through producing /constructing creative works/new artefacts, effective solutions to real-life problems or new processes.

3. Learning and Teaching Activities (LTAs)
(LTAs designed to facilitate students' achievement of the CILOs.)

LTA	Brief Description	CILO No.						Hours/week (if applicable)
		1	2	3	4	5		
Lectures	Students will engage in lecture activities about concepts, knowledge, and problem-solving skills relevant to the applications of e-logistics management, enterprise resource management, and supply chain management in the business sector.	✓	✓	✓	✓	✓		
SAP Laboratories	Students will participate in applying SAP enterprise resource planning software to solve logistics and supply chain problems through performing computer exercises and case studies.		✓		✓	✓		
Group Discussions	Students will discuss, clarify, and debate critical arguments and concepts through interaction with others while listening to and developing appropriate and different views.		✓	✓	✓			

4. Assessment Tasks/Activities (ATs)
(ATs are designed to assess how well the students achieve the CILOs.)

Assessment Tasks/Activities	CILO No.						Weighting	Remarks
	1	2	3	4	5			
Continuous Assessment: __50__%								
Case studies	✓	✓	✓	✓			20%	
Laboratory test			✓	✓	✓		30%	
Examination: __50__% (duration: 2 hours, if applicable)								
Examination	✓	✓	✓	✓			50%	
							100%	

5. **Assessment Rubrics**

(Grading of student achievements is based on student performance in assessment tasks/activities with the following rubrics.)

Applicable to students admitted before Semester A 2022/23 and in Semester A 2024/25 & thereafter

Assessment Task	Criterion	Excellent (A+, A, A-)	Good (B+, B, B-)	Fair (C+, C, C-)	Marginal (D)	Failure (F)
1. Case studies	1.1 CAPACITY for SELF-LEARNING to understand the principles and methodology of enterprise resource planning	High	Significant	Moderate	Basic	Not even reaching marginal levels
	1.2 ABILITY to DISCUSS critical issues in logistics and manufacturing in a company	High	Significant	Moderate	Basic	Not even reaching marginal levels
2. Laboratory test	2.1 ABILITY to APPLY enterprise resource planning software in performing business processes in logistics and manufacturing in a company	High	Significant	Moderate	Basic	Not even reaching marginal levels
3. Written examination	3.1 CAPACITY for understand the principles of enterprise resource planning	High	Significant	Moderate	Basic	Not even reaching marginal levels
	3.2 ABILITY to SOLVE problems in logistics, manufacturing and supply chain management	High	Significant	Moderate	Basic	Not even reaching marginal levels

Applicable to students admitted from Semester A 2022/23 to Summer Term 2024

Assessment Task	Criterion	Excellent (A+, A, A-)	Good (B+, B)	Marginal (B-, C+, C)	Failure (F)
1. Case studies	1.1 CAPACITY for SELF-LEARNING to understand the principles and methodology of enterprise resource planning	High	Significant	Basic	Not even reaching marginal levels
	1.2 ABILITY to DISCUSS critical issues in logistics and manufacturing in a company	High	Significant	Basic	Not even reaching marginal levels
2. Laboratory test	2.1 ABILITY to APPLY enterprise resource planning software in performing business processes in logistics and manufacturing in a company	High	Significant	Basic	Not even reaching marginal levels
3. Written examination	3.1 CAPACITY for understand the principles of enterprise resource planning	High	Significant	Basic	Not even reaching marginal levels
	3.2 ABILITY to SOLVE problems in logistics, manufacturing and supply chain management	High	Significant	Basic	Not even reaching marginal levels

Part III   Other Information (more details can be provided separately in the teaching plan)

1.   **Keyword Syllabus**
     (An indication of the key topics of the course.)

   1.   **Introduction to E-Logistics and Enterprise Resource Planning**
        From material resources planning (MRP) to enterprise resource planning (ERP). Impacts of information technology to a company. Integrated view of business processes. Functions and characteristics of enterprise systems.

   2.   **Materials Management**
        Understanding the materials management processes. Common materials management problems. Business process in purchasing. Functions and tools for managing inventory.

   3.   **Sales and Distribution**
        Common sales and distribution problems. Understanding the sales and distribution processes. Sales and distribution functionality. Sales order management processes.

   4.   **Production Planning and Management**
        Sales and operations planning. Demand management. Master production scheduling and material requirement planning. Production order execution and control. Manufacturing execution systems.

   5.   **Enterprise Resource Planning Implementation Issues**
        Business process reengineering. ERP-driven business process change. Process modelling tool. Challenges of implementing enterprise systems. Evaluation and selection of enterprise systems. Managing the implementation projects.

   6.   **Advanced planning and scheduling in supply chain Management**
        Understanding and solving logistics and supply chain problems. Advanced Planner and Scheduler.

2.   **Reading List**
2.1   **Compulsory Readings**
     (Compulsory readings can include books, book chapters, or journal/magazine articles. There are also collections of e-books, e-journals available from the CityU Library.)

	Title
1.	M Murray, Discover Logistics with SAP ERP. SAP Press (the latest edition)
2.	S Pradhan, Demand and Supply Planning with SAP APO. SAP Press (the latest edition)

2.2 Additional Readings
(Additional references for students to learn to expand their knowledge about the subject.)

	Books
1.	M Chudy, L Castedo, R Lopez (2015) Sales and Distribution in SAP ERP — Practical Guide, SAP Press
2.	M Chudy, L Castedo (2014) Purchasing with SAP MM—Practical Guide, SAP Press
3.	M Murray (2013) Material Management in SAP ERP, SAP Press
	Journal articles
1.	G Kohers (2015). SAP and the introductory management information systems course, Academy of Educational Leadership Journal Volume 19, Number 1, pp. 65-70.
2.	Sona Kanungo (2012). Improved supply chain management using integrated ERP systems, Sona Global Management Review, Vol. 7, pp. 1-4.
3.	Tsan Ming Choi, PuiSze Chow, Shuk Ching Liu (2013). Implementation of fashion ERP systems in China: Case study of a fashion brand, review and future challenges, Int. J. Production Economics, Vol. 146, pp. 70-81.
	Online Resources
1.	History of SAP http://www.sapfans.com/sapfans/saphist.htm
2.	Introduction to SAP R/3 http://www.sapfans.com/sapfans/sapr3con.htm
3.	SAP Help Portal http://help.sap.com/
4.	SAP AG http://www.sap.com/
5.	SAP Online Documentation: SAP Library http://help.sap.com/saphelp_46c/helpdata/en/73/69f5c755bb11d189680000e829fbbd/frameset.htm