

**City University of Hong Kong
Course Syllabus**

**offered by Department of Advanced Design and Systems Engineering
with effect from Semester A 2021 / 22**

Part I Course Overview

Course Title:	Supply Chain Management
Course Code:	SEEM6015
Course Duration:	One Semester
Credit Units:	3
Level:	P6
Medium of Instruction:	English
Medium of Assessment:	English
Prerequisites: <i>(Course Code and Title)</i>	Nil
Precursors: <i>(Course Code and Title)</i>	Knowledge of Basic Probability & Statistics and MEEM3060 (offered until Semester A 2011/12)/SEEM3060 Operations Research
Equivalent Courses: <i>(Course Code and Title)</i>	MEEM6015 Supply Chain Management
Exclusive Courses: <i>(Course Code and Title)</i>	Nil

Part II Course Details

1. Abstract

This course aims to develop students' abilities to understand the components of manage the global supply chain of a company or system, including raw material procurement, storage, materials handling, production, inventory, transportation, and delivery.

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.	Develop a familiarity with supply chain logistics concepts	30%	✓	✓	
2.	Explain the important concepts and approaches in procurement of materials and distribution of finished products	20%	✓	✓	
3.	Describe the issues in logistics system design and operation	20%	✓		
4.	Understand and apply appropriate, state-of-the-art mathematical principles, quantitative models and techniques to formulate and solve inventory and supply chain management problems	15%	✓		
5.	Discover how information technology and data analytics are adopted to improve existing supply chain systems, and to develop new business models for supply chains.	15%	✓	✓	✓
		100%			

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 self-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. Teaching and Learning Activities (TLAs)

(TLAs designed to facilitate students' achievement of the CILOs.)

TLA	Brief Description	CILO No.					Hours/week (if applicable)
		1	2	3	4	5	
Large Class Activities	Lectures	✓	✓	✓	✓	✓	33 hrs/sem
Group Work	Group project with a group paper	✓	✓	✓	✓	✓	6 hrs/sem

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: <u>50</u> %							
Group Project	✓		✓	✓	✓	30%	
Individual Coursework	✓	✓	✓	✓		10%	
Midterm Tests	✓	✓	✓	✓	✓	10%	
Examination: <u>50</u> % (duration: 2 hrs, if applicable)							
Examination will be arranged to assess students' understanding and ability to apply knowledge of supply chain management and operation learnt.	✓	✓	✓	✓	✓	50%	
						100%	

5. Assessment Rubrics

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

Assessment Task	Criterion	Excellent (A+, A, A-)	Good (B+, B, B-)	Fair (C+, C, C-)	Marginal (D)	Failure (F)
1. Group Project	ABILITY to identify novel applications of state-of-the-art data analytics tools in supply chain systems.	High	Significant	Moderate	Basic	Not even reaching marginal levels
2. Individual Coursework	UNDERSTANDING of the principles of business operation	High	Significant	Moderate	Basic	Not even reaching marginal levels
3. Midterm Tests	UNDERSTANDING of the principles of business operation in supply chain systems	High	Significant	Moderate	Basic	Not even reaching marginal levels
4. Examination	UNDERSTANDING and ABILITY to describe the principles of business operation in supply chain systems	High	Significant	Moderate	Basic	Not even reaching marginal levels

This is a Continuing Education Fund (CEF) Approved Course, to be eligible for reimbursement; students must achieve the following criteria;

- A minimum attendance rate of 70% (Students should sign on the attendance record for every lesson); and
- Grade C+ or above of the reimbursable course.

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.)

- Logistics systems and network
- Data collection, data management, and forecasting
- Inventory management and risk pooling
- Distribution strategies
- Information technology, bullwhip effect, and vendor managed inventory
- Freight transportation and logistics
- Transportation modelling and techniques

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.)

1.	Lecture notes
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2.2 Additional Readings

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

1.	SUNIL CHOPRA & PETER MEINDL, Supply Chain Management, Pearson Education.
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