

# Macao Polytechnic University

## Faculty of Business

### Bachelor of E-Commerce

#### Module Outline

Academic Year 2022 / 2023

Semester 2

<b>Learning Module</b>	Supply Chain Management			<b>Class Code</b>	ECOM3130
<b>Pre-requisite(s)</b>	None				
<b>Medium of Instruction</b>	English			<b>Credit</b>	3
<b>Lecture Hours</b>	45 class hrs	<b>Lab/Practice Hours</b>	N.A.	<b>Total Hours</b>	45 hrs
<b>Instructor</b>	<b>Billy Yu</b>		<b>E-mail</b>	<a href="mailto:billyyu@mpu.edu.mo">billyyu@mpu.edu.mo</a>	
<b>Office</b>	M5-34		<b>Telephone</b>	8599-3312	

#### Description

This course covers principles of SCM, the major components of SCM, the importance of information in SCM, and the role of Information Technology plays on SCM. The course also discusses the characteristics of SCM and its role under an E-Commerce environment. Basics of Enterprise Resource Planning (ERP) will also be included in this course. A commercial software product such as Microsoft Dynamics or Oracle E-Business Suite will be used as students' labs.

#### Learning Outcomes

After completing the learning module, students will be able to:

1. explain the concept of design in supply chains with considerations of product, market, and / or customer characteristics;
2. explain how information can substitute for the stock of physical resources;
3. examine the design and performance of supply networks and processes
4. examine outsourcing in aspects such as its advantages and tactics, and
5. discuss and evaluate the value of optimization in SCM.

## Alignment of Program and Module Intended Learning Outcomes

PILOs	MILOs
1. Demonstrate an understanding of the business processes and operations and the skillful realization of information technologies required to practice electronic commerce;	2
2. Apply knowledge in business, mathematics, programming, computing, web development, and database to address complex problems in the context of electronic commerce;	1 & 3
3. Analyze critically the effect of web technology use on organizational performance and develop electronic commerce strategies that fit organizational objectives;	
4. Select and apply tools and technologies to effectively implement electronic commerce systems in business intelligence, enterprise resources planning, supply chain management, and customer relationship management;	4 & 5
5. Develop relationships, motivate others, manage conflicts, lead changes, and work across differences in multi-disciplinary electronic commerce projects;	
6. Communicate and work effectively using written and spoken word, non-verbal language, and electronic tools with fellow professionals and different stakeholders in the electronic commerce industry;	
7. Demonstrate a global electronic commerce perspective as evidenced by an understanding of foreign languages and the role of Macau as an interface between the East and the West;	
8. Cope with and manage contemporary advancement related to electronic commerce development and demonstrate lifelong learning attitudes and abilities;	
9. Conduct research and devise innovative electronic commerce models to exploit business opportunities; and	
10. Reflect on professional responsibilities and keep up with the latest electronic commerce issues on legal, environmental, ethical, and societal considerations to benefit society comprehensively.	

## **Content**

1. Introduction (3 class hours)
2. Inventory management (5 class hours)
3. Risk Pooling (6 class hours)
4. Network (4 class hours)
5. Information and Bullwhip effect (5 class hours)
6. Project audit and corrections (3 class hours)
7. Distribution Strategy (3 class hours)
8. Mid-term Examination (1.5 class hours)
9. Strategic Alliance (1.5 class hours)
10. Outsourcing (3 class hours)
11. Risk management (2 class hours)
12. Coordinated Product & Supply Chain Design (2 class hours)
13. Project Presentations (3 class hours)
14. Final Examination (3 class hours)

## **Teaching Methods**

Students are required to prepare for and actively participate in class discussions. Other than passive listening, they are expected to take notes and ask questions in lectures as well as in group discussions. The projects expect students to be creative and students should apply the course material as well as knowledge from other subjects than what they learn in SCM.

## **Attendance**

Attendance requirements are governed by the “Academic Regulations Governing Bachelor’s Degree Programmes of Macao Polytechnic University”. Students who do not meet the attendance requirements for the course will not be permitted to sit the final or re-sit examination and shall be given an ‘F’ grade.

## **Assessment**

This course is graded on a 100 point scale, with 100 being the highest possible score and 50 the pass score.

	<b>Item</b>	<b>Description</b>	<b>Percentage</b>
1.	Project	Project of this subject	35%
2.	Midterm I	Midterm Examination (written)	25%
4.	Examination	Examination (written)	40%

**Total Percentage:** 100%

## **Plagiarism Policy**

It is student's responsibility to ensure that his/her assignment has been checked by Turnitin software, and the similarity score given by Turnitin software cannot be higher than 30%. However, a special case can be determined by the instructor.

## **Teaching Materials**

### **Reference**

#### **Textbook(s)**

Simchi-Levi, David et al. (2019) Designing and Managing the Supply Chain, MC GRAW HILL INDIA. ISBN 9386601990

Edward A. Silver, David F. Pyke, Douglas J. Thomas (2021) Inventory and Production Management in Supply Chains, ISBN 1032179325.

Ivanov, D., Tsipoulanidis, A., & Schönberger, J. (2017) Global supply chain and operations management. A Decision-Oriented Introduction to the Creation of Value, Springer, ISBN 978-3-319-94313-8.

#### **Reference book(s)**

Bandyopadhyay, J. K. (2015). Basics of supply chain management. CRC Press, ISBN 9781466589001.

#### **Journal(s)**

Tachizawa, E. M., Alvarez-Gil, M. J., & Montes-Sancho, M. J. (2015). How "smart cities" will change supply chain management. *Supply Chain Management: An International Journal*, 20(3), 237-248.

Ben-Daya, M., Hassini, E., & Bahroun, Z. (2019). Internet of things and supply chain management: a literature review. *International Journal of Production Research*, 57(15-16), 4719-4742.

#### **Website(s)**

Nil

#### **Note:**

1. The above class schedule is tentative and subject to change depending on the progress of the students.
2. Students are responsible for ALL materials covered in class AND in the textbook.