MS3127: GLOBAL BUSINESS LOGISTICS

Effective Term
Semester A 2022/23

Part I Course Overview

Course Title
Global Business Logistics

Subject Code
MS - Management Sciences
Course Number
3127

Academic Unit
Management Sciences (MS)

College/School
College of Business (CB)

Course Duration
One Semester

Credit Units
3

Level
B1, B2, B3, B4 - Bachelor's Degree

Medium of Instruction
English

Medium of Assessment
English

Prerequisites
CB2201 Operations Management

Precursors
Nil

Equivalent Courses
Nil

Exclusive Courses
Nil

Part II Course Details

Abstract
This course provides students with an understanding of the business logistics behind managing a successful supply chain. The course begins with the strategic sourcing and procurement of goods and materials, and proceeds to look at challenges

that arise as the goods and materials move towards the end-users. We study methods to assess different logistical decisions and the risks involved with such decisions. We also look at technological developments and market trends, and how these factors impact business logistics.

Course Intended Learning Outcomes (CILOs)

	CILOs	Weighting (if app.)	DEC-A1	DEC-A2	DEC-A3
1	Identify the role of business logistics in various stages of the supply chain, from procurement to distribution and/or disposal.	20	x	x	
2	Identify risks and challenges that impact a company's transfer of goods from suppliers to their end-users, as well as strategies to reduce risks and costs.	25	x	x	
3	Evaluate different logistical decisions using performance metrics. Recommend solutions under various business situations.	25		x	x
4	Evaluate the effects on logistical operations from technology and market trends. Describe ways that a business can take advantage of opportunities and mitigate risks arising from such trends.	30		x	x

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.

Teaching and Learning Activities (TLAs)

	TLAs	Brief Description	CILO No.	Hours/week (if applicable)
1	Lecture	Concepts, frameworks, and evaluation criteria for sourcing, procurement, transportation, and distribution are explained. Contemporary issues, such as the impact of recent technological advancements, are discussed.	1, 2, 3, 4	2

2	Class Discussion	Students work in groups to complete in-class activities, assignments, and/or group project. They are required to share and present their results to the class.	2, 3, 4	1
3	Reading Assignments/ Case Studies	Students read cases and other course materials before class. The relevant case will serve as the focus of class discussion and the group activity and/or presentation. The lecturer serves as a facilitator and trains the students to apply theory from lecture to identify and solve the problems in the case.	1, 2, 3, 4	2

Assessment Tasks / Activities (ATs)

	ATs	CILO No.	Weighting (%)	Remarks (e.g. Parameter for GenAI use)
1	Assignments & in-class exercises The assignments and in-class exercises are to enhance students' ability on understanding the key relevant concepts	1, 2, 3, 4	40	Individual & group
2	Group project The group project can reinforce communication skills that are relevant to both group and individual work for solving real-world business problems.	1, 2, 3, 4	20	

Continuous Assessment (%)

60

Examination (%)

40

Examination Duration (Hours)

2

Additional Information for ATs

Written examination
The examination will assess the students' ability to apply the key concepts of business logistics management and solve business problems.

Assessment Rubrics (AR)

Assessment Task

Assignments & in-class exercises

Criterion

Apply to brainstorm ideas and to gain exposure on dealing with different logistics issues.

Excellent (A+, A, A-)

Strong evidence of grasping managerial issues on the logistics behind procuring goods and ultimately delivering such goods to end-users, as outlined in CILOs.Clearly and correctly structures most critical points and makes important contributions to the assigned questions or problems.

Good (B+, B, B-)

Evidence of grasping managerial issues on the logistics behind procuring goods and ultimately delivering such goods to end-users, as outlined in CILOs. Clearly and correctly state some critical points and contributions of the assigned questions or problems.

Fair (C+, C, C-)

Some evidence of grasping managerial issues on the logistics behind procuring goods and ultimately delivering such goods to end-users, as outlined in CILOs. Understanding of the subject, ability to develop solutions to simple and basic problems in the assigned questions and problems.

Marginal (D)

Sufficient familiarity with the managerial issues on the logistics behind procuring goods and ultimately delivering such goods to end-users, as outlined in CILOs. State a few critical points and marginal contributions of the assigned questions and problems.

Failure (F)

Little evidence of grasping managerial issues on the logistics behind procuring goods and ultimately delivering such goods to end-users, as outlined in CILOs. State no critical points and no contributions of the assigned questions and problems.

Assessment Task

Group project

Criterion

Ability to analyse business logistics issues and real-world business problems.

Excellent (A+, A, A-)

Critically discuss issues and apply most relevant frameworks to analyse logistical issues in real-world problems. Critical problem-solving skills and excellent presentation skills are expected.

Good (B+, B, B-)

Critically discuss issues and apply relevant frameworks to analyse logistical issues in real-world problems. Critical problem-solving skills and good presentation skills are expected.

Fair (C+, C, C-)

Discuss issues and apply somewhat relevant frameworks to analyse logistical issues in real-world problems. Acceptable problem-solving skills and presentation skills are expected.

Marginal (D)

Attempt to discuss issues and apply frameworks to analyse logistical issues in real-world problems. Fair problem-solving skills and presentation skills are expected.

Failure (F)

Does not discuss relevant issues nor attempt to analyse logistical issues in real-world problems. Poor problem-solving skills and presentation skills are expected.

Assessment Task

Final exam

Criterion

Ability to demonstrate and apply the key concepts and the use of tools and techniques in solving business logistics problems.

Excellent (A+, A, A-)

Strong evidence of original thinking; good organization, capacity to analyse and synthesize; superior grasp of subject matter; evidence of extensive knowledge base.

Good (B+, B, B-)

Evidence of grasp of subject, some evidence of critical capacity and analytic ability; reasonable understanding of issues; evidence of familiarity with literature.

Fair (C+, C, C-)

Student who is profiting from the university experience; understanding of the subject; ability to develop solutions to simple problems in the material.

Marginal (D)

Sufficient familiarity with the subject matter to enable the student to progress without repeating the course.

Failure (F)

Little evidence of familiarity with the subject matter; weakness in critical and analytic skills; limited or irrelevant use of literature.

Part III Other Information

Keyword Syllabus

i) Role of logistics in supply chain management: Interaction with procurement, production, and inventory decisions, value created by business logistics

ii) Transportation & distribution: Transportation system, modal cost structures, competition and pricing principles; distribution strategies for B2B vs B2C; analysis via vehicle routing problem and flow problems (e.g. minimum cost flow, lossy network flow); facility location and network analysis via mathematic programming

iii) Performance measures and risk assessment: Balance scorecard, KPI, financial statement impact

iv) Sustainable logistics: Challenges and opportunities; product returns and reverse logistics

v) Global logistics management: Challenges and opportunities; terminologies, documentations, and arrangements for international logistics and trade such as terms of sales

vi) Contemporary issues: Logistical challenges faced by multi-channel retailers; technology (blockchain, platform, internet of things, etc); supply chain finance; cooperation and competition between retail and logistics company

Reading List

Compulsory Readings

	Title
1	Wessel Pienaar, et., Business Logistics Management, 5th ed., 2017 Oxford University PressISBN-13: 9780190415662

Additional Readings

	Title
1	André LangevinDiane Riopel , Logistics Systems: Design and Optimization, 2005 Springer ISBN 978-0-387-24977-3
2	Pierre A.David, International Logistics: the Management of International Trade Operations, 5th Ed., 2017, Cicero Books, LLC ISBN-13: 978-0989490641
3	Tran-Dang, H., Krommenacker, N., Charpentier, P., & Kim, D. S. (2020). The Internet of Things for logistics: perspectives, application review, and challenges. IETE Technical Review, 1-29.