

LOG360 Solutions Design for Logistics and Supply Chain Management

Level: 3

Credit Units: 5 Credit Units

Language: ENGLISH

Presentation Pattern: EVERY JULY

Synopsis:

Logistics professionals and service providers have to continuously develop new capabilities and value-added services to compete in global and domestic markets. This course aims to equip students with the knowledge and skills to design customised solutions that are based on design thinking to meet the needs of internal or external customers in specific industry sectors. These skills include process flow analysis, facility layout design and financial analysis of logistics solutions. Topics covered provide the basis for students to construct solutions that are fit-for-purpose, information-driven, resilient and sustainable.

Topics:

- Design Thinking for Supply Chains
- Considerations in Solutions Design
- Role of Information in Solutions Design
- Process Flows in Solutions Design
- Logistics Solutions Principles
- Automation in Logistics Solutions
- Facility Layout Planning
- Facility Layout Solutions Design
- Freight Distribution Solutions Design
- Sector-Specific Logistics Solutions
- Financial Analysis for Logistics Solutions
- Resilient and Sustainable Logistics Solutions

Learning Outcome:

- Show how design thinking can be used to create solutions that benefit the organisation and its customers.
- Examine the importance of information and process flows in the development of logistics solutions.
- Demonstrate the link between throughput, capacity and automation in logistics solutions.
- Design the layout for a logistics facility using the systematic layout planning method.
- Discuss logistics and freight distribution solutions to support customers with sector-specific requirements.
- Propose cost-effective, resilient and sustainable logistics solutions.

Assessment Strategies (Daytime Class):

Components	Description	Weightage Allocation (%)
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Overall Continuous Assessment	PRE-COURSE QUIZ 1	2
	PRE-COURSE QUIZ 2	2
	PRE-COURSE QUIZ 3	2
	TUTOR-MARKED ASSIGNMENT 1	18
	GROUP BASED ASSIGNMENT 1	20
	PARTICIPATION 1	6
Overall Examinable Components	Written Exam	50
Total		100

Assessment Strategies (Online Class):

Components	Description	Weightage Allocation (%)
Overall Continuous Assessment	PRE-CLASS QUIZ 1	2
	PRE-CLASS QUIZ 2	2
	PRE-COURSE QUIZ 1	2
	DISCUSSION BOARD 1	10
	GROUP BASED ASSIGNMENT 1	10
	PARTICIPATION 1	6
	TUTOR-MARKED ASSIGNMENT 1	18
Overall Examinable Components	Written Exam	50
Total		100