

# LOG358 Airport and Airline Logistics

**Level:** 3

**Credit Units:** 5 Credit Units

**Language:** ENGLISH

**Presentation Pattern:** EVERY JULY

## Synopsis:

Aviation is one of the main drivers in globalisation and economic development by connecting people, cultures and businesses across continents and providing millions of jobs to people. In Singapore, the aviation industry and its supply chain is a major contributor to the nation's GDP. LOG358 Airport and Airline Logistics provides a broad overview of major elements in managing airports and airline logistics. The main topics include supply and demand in aviation supply chain, airport operations, airline business models, modelling applications, aviation performance measures as well as safety, security and environmental considerations. The course will also cover the impact of major business disruptions on the aviation industry and conclude with discussing the future of the aviation industry.

## Topics:

- Introduction to Aviation Industry
- Supply and Demand in Aviation Supply Chain
- Airport Airside Operations
- Airport Landside Operations
- Airline Business Models
- Airport–Airline Relationship
- Modelling Applications in Managing Airports and Airlines
- Measuring Performance for Airports and Airlines
- Cargo Operations and Terminal
- Aviation Safety, Security, and Environmental Impacts
- Impact of COVID-19 on the Aviation Industry
- Future of the Aviation Industry

## Learning Outcome:

- Demonstrate factors affecting supply and demand in aviation supply chain.
- Discuss the key airside and landside operations in airports.
- Criticise various airline business models and airport-airline relationships.
- Examine various modelling applications and performance measure metrics in the aviation industry.
- Appraise the cargo operations, safety, security and environmental impact issues in the aviation industry.
- Indicate the impact of major business disruptions on the aviation industry.

## Assessment Strategies (Daytime Class):

Components	Description	Weightage Allocation (%)
Overall Continuous Assessment	PRE-COURSE QUIZ 1	2

Overall Continuous Assessment	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
<b>Total</b>		<b>100</b>