

<b>COURSE TITLE</b>	<b>ADVANCED CARGO &amp; FREIGHTER OPERATIONS</b>
<b>COURSE CODE</b>	<b>04MB0226</b>
<b>COURSE CREDITS</b>	<b>4</b>

**Course Outcomes:** After completion of this course, student will be able to:

- 1 Analyze air cargo complexes and operations, focusing on cargo functions, airside operations, transfer procedures, and infrastructure needs for effective logistics management.
- 2 Evaluate cargo operations in India by examining historical development, operational requirements, policies, and handling procedures for bulky items.
- 3 Apply knowledge of special air cargo procedures, including Dangerous Goods Regulations and handling oversized items, ensuring compliance with safety standards
- 4 Assess the benefits of air cargo in India, including economic feasibility, contributions to import/export activities, and opportunities for growth.
- 5 Synthesize information on air cargo operations to develop strategies for optimizing services, promoting economic growth, and enhancing efficiency and competitiveness in India.

**Pre-requisite of course:** Knowledge of the aviation industry and its role in freight transportation. Understanding of regulatory requirements and industry standards.

#### Teaching and Examination Scheme

<b>Theory Hours</b>	<b>Tutorial Hours</b>	<b>Practical Hours</b>	<b>ESE</b>	<b>IA</b>	<b>CSE</b>	<b>Viva</b>	<b>Term Work</b>
4	0	0	50	30	20	0	0

<b>Contents : Unit</b>	<b>Topics</b>	<b>Contact Hours</b>
1	<b>Introduction &amp; Air Cargo Complexes (ACC)</b> Understanding Operations of Cargo & Freighter: Overview of the operations involving cargo handling and freighter services., Airside Operations: Functions and activities related to cargo handling on the airside of airports., Transfer Procedures: Procedures for transferring cargo between flights and transport modes., Infrastructure: Overview of the infrastructure and facilities required for air cargo operations.	15
2	<b>Cargo Operations in India</b> History: Historical overview of air cargo operations in India, Operational Requirements: Understanding the operational needs and requirements for efficient cargo handling., Policies: Overview of government policies and regulations governing air cargo operations in India., Bulky Items – Cargo Handling: Handling procedures for bulky items in air cargo operations.	15

<b>Contents : Unit</b>	<b>Topics</b>	<b>Contact Hours</b>
3	<b>Special Procedures</b> Dangerous Goods Regulation: Regulations and safety measures for handling dangerous goods in air cargo., Heavy & Oversized Items: Procedures for handling heavy and oversized items in air cargo operations., Unusual Dimensions/Proportions: Handling procedures for cargo with unusual dimensions or proportions.	15
4	<b>Benefits of Air Cargo in India</b> Understanding the Economic Feasibility: Analysis of the economic feasibility and advantages of air cargo services in India., Import & Export Contribution to the Economy: Contribution of air cargo operations to the import and export activities of the Indian economy	15
<b>Total Hours</b>		<b>60</b>

**Textbook :**

- 1 Aviation Management “Global and National Perspective”, Ratandeep Singh, Kanishka publisher, 2019
- 2 The Wright Brothers, David Mccullough, Simon & Schuster, 2022

**References:**

- 1 Strategic Airport Planning, Strategic Airport Planning, Robert E. Caves & Geoffrey D. Gosling, Elsevier Science Ltd., 2019

**Suggested Theory Distribution:**

The suggested theory distribution as per Bloom’s taxonomy is as follows. This distribution serves as guidelines for teachers and students to achieve effective teaching-learning process

Distribution of Theory for course delivery					
<b>Remember / Knowledge</b>	<b>Understand</b>	<b>Apply</b>	<b>Analyze</b>	<b>Evaluate</b>	<b>Higher order Thinking / Creative</b>
10.00	10.00	20.00	20.00	20.00	20.00

**Instructional Method:**

- 1 PRACTICALS, CLASSROOM TEACHING, POWER POINT PRESENTATION