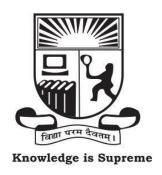
Item No. –

As Per NEP 2020

Tolani College of Commerce (Autonomous)



Title of the Course: Introduction to Aviation and Airport Operations (Semester IV)

Programme: Bachelor of Commerce (Logistics)

Syllabus for 3 Credit Course from the Academic Year 2025-2026

Name of the Course: Introduction to Aviation and Airport Operations

Sr. No.	Heading	Particulars	
1	Description of the course :	This course provides a comprehensive understanding of the aviation industry and airport operations equipping students with the knowledge to navigate the complexities of air transport.	
	Including but not limited to:	Historical milestones, international regulations, airline business models, and ground operations	
2	Vertical:	Major	
3	Type:	Theory	
4	Credit:	3 credits	
5	Hours Allotted :	45 Hours	
6	Marks Allotted:	100 Marks Continuous Evaluation 40 marks and Semester End Examination 60 marks	
7	Course Objectives: 1. To develop competencies and knowledge of students to become Aviation Professionals. 2. To help Students to understand Fundamentals of Aviation Industry & Airport Operations.		
8	 Course Outcomes: Ability to apply the Basic knowledge of Aviation and Airport Operations in the real-life situation This subject will enable them to enhance their ability and professional skills in the Aviation Industry & Airport Operations 		

9	Module 1: (15 Hours)		
	History of Aviation & Key Organizations in the Aviation Industry		
	 History of Aviation through the ages (Greek Mythology, Wright Brothers, World Wars, Commercial Aircraft, Modern Jetliners) Key Organizations: ICAO, IATA, MoCA, DGCA, AAI, AAICLAS, AERA, BCAS 		
	Freedoms of the Air & the Airline Business		

• Freedoms of the Air: Overview & Nine Freedoms

World Geography & Airline Communication Protocol

• Traffic Conference Areas, Time Zones, Codes (Country, City, Carrier, Currency, Aircraft Registration, Airline Phonetics)

Module 2: (15 Hours)

The Airline Business

- Business Models: Legacy, Low Cost, Charter, Regional, Cargo & Hybrid
- Airplane Manufacturers: Boeing, Airbus & Others
- Narrow Body vs. Wide Body: Definition & Features
- The Airline Industry as a Business: Key Functions
- Airline Codeshares & Alliances (Concept, Key Benefits, Major Airline Alliances)
- Airline Cabin Classes: First, Business, Premium Economy & Economy

Airport Operations

- Key Stakeholders, Airport Types, Revenue Sources
- Airport Functional Layout (Landside, Governmental Agencies, Baggage Handling, Airside Operations)

Module 3: (15 Hours)

Airport as an Operational System

- Infrastructure & Facilities
- Airport Operations Control Centre (AOCC)
- Airport Collaborative Decision Making (ACDM)
- Key IT Systems at Airports

Concessionaire Activities at Airports (Indian Scenario)

- Non-Aero Activities (Retail, Food & Beverage, Real Estate, Car Rentals, Car Parking, Currency & Banking, Advertising)
- Maintenance Repair & Overhaul (MRO): Types of MRO Models
- Ground Handling (Concept, Self-Handling vs. Outsourced Handling, IATA Standard Ground Handling Agreement)

10

Reference Books:

- LSC. "Course Material Prepared by LSC."
- ICAO. Convention on International Civil Aviation (Chicago Convention). 9th ed., 2006.
- Sengupta, P. S. Principles of Airport Economics. Excel Books, 1 Dec. 2007.
- Ashford, Norman, Pierre Coutu, and John Beasley. *Airport Operations*. 3rd ed., McGraw-Hill Education, 16 Dec. 2012.
- Belobaba, Peter, Amedeo Odoni, and Cynthia Barnhart. The Global Airline Industry. 2nd ed., Wiley, 2015.

Button, Kenneth J. Air Transport Economics. Routledge, 2017. • Graham, Anne. Managing Airports: An International Perspective. 5th ed., Routledge, 9 June 2018. • IATA. Airport Handling Manual. 40th ed., 2020. IATA. Ground Operations Manual. 9th ed., 2020. 11 **Internal Continuous Assessment: 40%** | **Semester End Examination: 60% 12 Continuous Evaluation through:** A Learner must be Case Study, Class Presentation present for each of (40 marks) and Research Assignments, the sub-component Periodical Test 13 Format of SEE Question Paper: (60 marks) Question **Nature of Question** Maximum Marks No. 15 Marks Answer the following: (attempt any 2 of 3) Q-1 a) b) c) Answer the following: (attempt any 2 of 3) 15 Marks Q-2 b) c) 15 Marks Answer the following: (attempt any 2 of 3) Q-3 a) b) c) 15 Marks Answer the following: (attempt any 2 of 3) a) b) c)

Signatures of Team Members

S	Sr.No.	Name	Signature
	1.	Ms. Amrita Nambiar	
	2.	Mr. G. Kumar	