

AC –

Item No. –

As Per NEP 2020

**Tolani College of
Commerce
(Autonomous)**



Knowledge is Supreme

**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 : Including but not limited to :	<p>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.</p> <p>Historical milestones, international regulations, airline business models, and ground operations</p>
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: <ol style="list-style-type: none"> 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: <ol style="list-style-type: none"> 1. Ability to apply the Basic knowledge of Aviation and Airport Operations in the real-life situation 2. This subject will enable them to enhance their ability and professional skills in the Aviation Industry & Airport Operations 	

9	Module 1: <div style="text-align: right;">(15 Hours)</div>
	<p>History of Aviation & Key Organizations in the Aviation Industry</p> <ul style="list-style-type: none"> • 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 <p>Freedoms of the Air & the Airline Business</p>

	<ul style="list-style-type: none"> • Freedoms of the Air: Overview & Nine Freedoms <p>World Geography & Airline Communication Protocol</p> <ul style="list-style-type: none"> • Traffic Conference Areas, Time Zones, Codes (Country, City, Carrier, Currency, Aircraft Registration, Airline Phonetics)
	Module 2: (15 Hours)
	<p>The Airline Business</p> <ul style="list-style-type: none"> • 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 <p>Airport Operations</p> <ul style="list-style-type: none"> • Key Stakeholders, Airport Types, Revenue Sources • Airport Functional Layout (Landside, Governmental Agencies, Baggage Handling, Airside Operations)
	Module 3: (15 Hours)
	<p>Airport as an Operational System</p> <ul style="list-style-type: none"> • Infrastructure & Facilities • Airport Operations Control Centre (AOCC) • Airport Collaborative Decision Making (ACDM) • Key IT Systems at Airports <p>Concessionaire Activities at Airports (Indian Scenario)</p> <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • LSC. "Course Material Prepared by LSC." • ICAO. <i>Convention on International Civil Aviation (Chicago Convention)</i>. 9th ed., 2006. • Sengupta, P. S. <i>Principles of Airport Economics</i>. Excel Books, 1 Dec. 2007. • Ashford, Norman, Pierre Coutu, and John Beasley. <i>Airport Operations</i>. 3rd ed., McGraw-Hill Education, 16 Dec. 2012. • Belobaba, Peter, Amedeo Odoni, and Cynthia Barnhart. <i>The Global Airline Industry</i>. 2nd ed., Wiley, 2015.
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	<ul style="list-style-type: none"> • Button, Kenneth J. <i>Air Transport Economics</i>. Routledge, 2017. • Graham, Anne. <i>Managing Airports: An International Perspective</i>. 5th ed., Routledge, 9 June 2018. • IATA. <i>Airport Handling Manual</i>. 40th ed., 2020. • IATA. <i>Ground Operations Manual</i>. 9th ed., 2020. 		
11	Internal Continuous Assessment: 40%	Semester End Examination: 60%	
12	Continuous Evaluation through: (40 marks)	Case Study, Class Presentation and Research Assignments, Periodical Test	A Learner must be present for each of the sub-component
13	Format of SEE Question Paper: (60 marks)		
	Question No.	Nature of Question	Maximum Marks
	Q-1	Answer the following: (attempt any 2 of 3) a) b) c)	15 Marks
	Q-2	Answer the following: (attempt any 2 of 3) a) b) c)	15 Marks
	Q-3	Answer the following: (attempt any 2 of 3) a) b) c)	15 Marks
		Answer the following: (attempt any 2 of 3) a) b) c)	15 Marks

Signatures of Team Members

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