

CC-Airport and Operations Management (TYBBA Sem-5 – 2025-26)

	Resource Person: Dr. Gautam Donga MBA (Marketing), NET (Management), PhD (Management)
Course Objective:	To enable students to develop a foundational understanding of airport operations, including the structure, functions, and key stakeholders involved in the aviation industry.
Expected Outcome:	1. Students will develop a foundational understanding of airport operations. 2. Students will acquire the ability to analyze and manage airside operations. 3. Students will gain practical knowledge of terminal operations and passenger handling procedures.
Evaluation Method:	Blended Mode- Objectives and Descriptive
Course Content:	Module 1: Introduction to Airport Operations • The components of an airport • Types of airports: Domestic, International, Cargo • Airport departments and their functions • The airfield • Navigational aids located on airfields • Air traffic control and surveillance facilities located on the airfield • Security infrastructure on airfield Module 2: Airspace and Air Traffic Control • Introduction • History of air traffic control • The present day air traffic control management and operating infrastructure • The basics of air traffic control • Current and future enhancements to air traffic control Module 3: Airport Capacity and Delay • Introduction • Defining capacity • Factors affecting capacity and delay • Estimating capacity • Defining delay • Estimating delay • Approaches to reducing delay

	• Administrative and demand Management Module 4: Future of Airport Management • Introduction • Restructuring of commercial air carriers • New large aircraft • Small aircraft transportation systems
References:	• Wells, A. T., & Young, S. B. (2011). <i>Airport planning and management</i> (6th ed.). McGraw-Hill Education. • Graham, A. (2018). <i>Managing airports: An international perspective</i> (5th ed.). Routledge. • Wensveen, J. G. (2016). <i>Air transportation: A management perspective</i> (8th ed.). Routledge. • Vasigh, B., Fleming, K., & Tacker, T. (2018). <i>Introduction to air transport economics: From theory to applications</i> (3rd ed.). Routledge.