

COURSE TITLE	GLOBAL AVIATION, BUSINESS AND OPERATION MANAGEMENT
COURSE CODE	04AH0101
COURSE CREDITS	4

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

- 1 Demonstrate a comprehensive understanding of the history of aviation, including key milestones, developments, and their impact on the aviation industry.
- 2 Apply map reading skills and geographical knowledge to interpret aviation maps, flight paths, and weather patterns for efficient navigation and operations in the aviation sector.
- 3 Evaluate the types and characteristics of domestic and international airports, airlines, and the theory of flight to make informed decisions and enhance aviation management practices.
- 4 Analyse the roles and responsibilities of aviation personnel, including ground staff, cabin crew, and aviation authorities, to ensure safe and efficient aviation operations in compliance with regulations and standards.
- 5 Design and implement effective airport administration procedures, including ticketing software utilization, airport security protocols, maintenance practices, and cargo handling systems, to optimize airport efficiency and enhance passenger safety and satisfaction.

Pre-requisite of course:None

Teaching and Examination Scheme

Theory Hours	Tutorial Hours	Practical Hours	ESE	IA	CSE	Viva	Term Work
4	0	0	25	30	20	25	0

Contents : Unit	Topics	Contact Hours
1	Introduction to Aviation sector History of Aviation: Exploring the evolution and development of aviation over time., Map Reading Skills: Developing essential skills for reading and interpreting aviation maps., Aviation Terminology: Understanding key terms and terminology used in the aviation industry., Flight Structure: Overview of the components and structure of an aircraft., Geographical Information: Understanding the importance of geographical information in aviation.	15
2	Types of Airports & Airlines Domestic Airports: Characteristics and functions of domestic airports., International Airports: Overview of international airports and their operational differences., Domestic & International Airlines: Understanding the distinctions between domestic and international airlines., Theory of Flight: Introduction to the principles and theories of flight.	15

Contents : Unit	Topics	Contact Hours
3	Roles & Responsibilities in Aviation Ground Staff: Responsibilities and duties of ground staff in airport operations., Cabin Crew: Roles and functions of cabin crew members on flights., Aviation Authorities: Overview of aviation regulatory bodies and their roles., Roles of States & Centres: Understanding the roles of states and central agencies in aviation governance.	15
4	Ticketing Software, Airport Administration Introduction to Ticketing Software: Overview of software used in airline ticketing and reservations., Airport Security: Importance of security measures in airport operations., Airport Runway: Functions and maintenance of airport runways., Airport Taxiway: Understanding the layout and management of airport taxiways., Maintenance: Maintenance procedures for aircraft and airport infrastructure., Airport Support System: Services and systems that support airport operations., Airport Cargo System: Managing cargo operations at airports.	15
Total Hours		60

Textbook :

- 1 The Wright Brothers, David Mccullough, Simon & Schuster, 2016
- 2 Strategic Airport Planning, Robert E. Caves & Geoffrey D. Gosling, Elsevier Science ltd., 2022

References:

- 1 Aviation Management “Global and National Perspective”, Aviation Management “Global and National Perspective”, Ratandeep Singh., Kanishka publisher, 2021

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					
Remember / Knowledge	Understand	Apply	Analyze	Evaluate	Higher order Thinking / Creative
20.00	30.00	25.00	15.00	10.00	0.00

Instructional Method:

- 1 Theory

Supplementary Resources:

- 1 <https://en.uitm.edu.eu/postgraduate-programmes/global-aviation-management/>

Supplementary Resources:

- 2 <https://www.iata.org/en/services/data/safety/gadm/>
- 3 https://sist.sathyabama.ac.in/sist_coursematerial/uploads/SAE1403.pdf