

GUJARAT TECHNOLOGICAL UNIVERSITY

AERONAUTICAL ENGINEERING AVIATION MANAGEMENT SUBJECT CODE: 2160108 B.E. 6th SEMESTER

Type of course: Management

Prerequisite: Exposure to preliminary subjects of Management in earlier semesters

Rationale: Offering this subject would benefit students of Aeronautical Engineering in terms of opportunities for recruitment at Airport premises in India.

Teaching and Examination Scheme:

Teaching Scheme			Credits C	Examination Marks						Total Marks
L	T	P		Theory Marks			Practical Marks			
				ESE (E)	PA (M)		ESE (V)		PA (I)	
				PA	ALA	ESE	OEP			
2	0	0	2	70	20	10	0	0	0	0

Content:

Sr. No.	Content	Total Hrs	% Weightage
1	<u>HISTORY OF AVIATION</u> The Evolution of Aviation, Growth Drivers, Issues and Challenges, Global Aviation Industry, Aviation Industry in India, An Overview, Aircraft Types and Structures, Aircraft Manufacturers.	06	20%
2	<u>WORLD AIRLINES AND AIRPORTS , WORLD AVIATION BODIES</u> Airports- Civil , Military, Training, Domestic/International Aviation Structure, Passenger/Cargo Terminals, World Airlines, World's Major Airports, IATA / ICAO/ AAI/ DGCA, National Aviation Authorities & Role of State and Central Governments.	10	45%
3	<u>Role of Director General of Civil Aviation in India</u> Introduction of DGCA, rules, Civil Aviation Requirements. Medical, licensing, aircraft registration, air crash investigation, aircraft inspection. Aeronautical Information Publication.	08	35%

Suggested Specification table with Marks (Theory):

Distribution of Theory Marks					
R Level	U Level	A Level	N Level	E Level	C Level
70	30	0	0	0	0

Legends: R: Remembrance; U: Understanding; A: Application, N: Analyze and E: Evaluate C: Create and above Levels (Revised Bloom's Taxonomy)

Note: This specification table shall be treated as a general guideline for students and teachers. The actual distribution of marks in the question paper may vary slightly from above table.

REFERENCE BOOKS :

1. Civil Aviation – Raju G & Mihir Babu G- Excel Books
2. Fundamentals of Air Transport Management- P S Senguttuvan- Excel Books
3. Air Travel: How safe is it? – Laurie Taylor- Blackwell Science
4. Civil Aviation Requirements, CAR-145, Director General of Civil Aviation. Ministry of Civil Aviation, Government of India- The English Book Store
5. Flight: The Complete History – R G Grant- D K Publishing

Course Outcome:

After learning this subject students will learn about

1. Aviation structure of India
2. History of global and Indian aviation industry
3. Role of Aviation authorities at national and international level.

ACTIVE LEARNING ASSIGNMENTS: Preparation of power-point slides, which include videos, animations, pictures, graphics for better understanding theory and practical work – The faculty will allocate chapters/ parts of chapters to groups of students so that the entire syllabus to be covered. The power-point slides should be put up on the web-site of the College/ Institute, along with the names of the students of the group, the name of the faculty, Department and College on the first slide. The best three works should submit to GTU.