AIM: To introduce the basic concepts of aerospace engineering and the current developments in the field.

UNIT I  AIRCRAFT CONFIGURATIONS  5

OBJECTIVE: To study different types of airplane – Light and Heavy.


UNIT II  PRINCIPLES OF FLIGHT  10

OBJECTIVE: To Understand the basic properties and physical principles of flight.

Physical properties and structure of the atmosphere, Temperature, Pressure, Density and Altitude, Generation of Lift and Drag. Aerofoils, Mach Number, Rolling, Pitching and Yawing motions.
UNIT III  AIRPLANE STRUCTURES AND MATERIALS  10

OBJECTIVE: To Study different materials used for construction of an airplane.


UNIT IV  POWER PLANTS USED IN AIRPLANES  10

OBJECTIVE: To Study different types of power plants used in aircrafts.

Basic ideas About Piston, Turboprop, Turboshift, Turbofan and Turbojet engines, Use of Propeller and Jets for Thrust production. Advantages and Disadvantages.

UNIT V  AIRCRAFT GROUND HANDLING AND SUPPORT EQUIPMENT  10

OBJECTIVE: To study procedure of ground handling of sophisticated aircraft.


TOTAL: 45 Periods

TEXT BOOKS


REFERENCES
2nd YEAR

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SUBJECT

AVIATION GENERAL RULES AND REGULATIONS

AIM: To teach the students rules and regulations to be followed by an operator of aircraft.

UNIT I  RULES OF AIR

OBJECTIVE: To understand the rules of air.

Definitions – Aerodrome, Aeroplane, Air traffic, Alternate aerodrome, Apron, Controlled aerodrome, Controlled airspace, Manoeuvring area, Pilot-in-command, Psychoactive substances, Taxiway, Applicability Of The Rules Of The Air, Compliance with the Rules of the air, Problematic use of psychoactive substances, General Rules - Protection of persons and property, Avoidance of collisions, Lights to be displayed by aircraft, Signals - Distress And Urgency Signals

UNIT II  OPERATION OF COMMERCIAL AIR TRANSPORT - AEROPLANES

OBJECTIVE: To understand the rules of operation of aeroplanes.

UNIT III CRITERIA FOR LEASING OF AIRCRAFT BY INDIAN OPERATORS 8

OBJECTIVE: To understand the procedure and rules of leasing of aircrafts.

Introduction, Operations with leased aircraft, Foreign registered aircraft leased to Indian operators, Indian registered aircraft leased to foreign operator, Leasing aircraft from one Indian operator to another Indian operator, Grant of Permission.

UNIT IV REGISTRATION / DEREGISTRATION OF AIRCRAFT 10

OBJECTIVE: To understand the procedure of registration and deregistration of aircraft.

Definitions, Classification of Aircrafts, Procedure For Registration of Aircraft, Application For Registration of Aircraft, Change of Ownership, Aircraft Imported By Air, Registration Certificate And Validity of Registration of Aircraft, Issue of Duplicate Certificate of Registration, Cancellation of Registration of Aircraft, Fixation of Nationality And Registration Markings, Identification Plate, Registration fees.

UNIT V PROVISION OF MEDICAL SUPPLIES IN AIRCRAFT 9

OBJECTIVE: To provide knowledge of medical assistance available in aircraft during emergency.

First- Aid Kit, Medical Kit, Universal Precaution Kit, Requirement of Medical Supplies, Contents of The First-Aid Kit, Contents of Medical Kit, Contents of Universal Precaution Kit, Periodic Examination of The Kit, General Requirements.

TOTAL : 45 Periods

TEXT BOOKS


2. Aeronautical Information Circulars.

REFERENCES

3rd YEAR

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SUBJECT

HANDLING OF AVIATION LOGISTICS

AIM: To study the concepts of air transportation and cargo management of aircraft.

UNIT I REQUIREMENTS FOR AIR TRANSPORT CARGO SERVICES IN INDIA 5

OBJECTIVE: To understand rules for air cargo services in India.

Air Cargo Operations, Eligibility Requirements, Procedural Requirements, Aircraft And Airworthiness Requirements, Operational Requirements, General Requirements.

UNIT II MANAGING AIR CARGO SERVICES 10

OBJECTIVE: To understand air cargo management.


UNIT III AIR CARGO LOGISTICS IN INDIA 10

OBJECTIVE: To understand network of air cargo logistics in India.

Introduction, Air Cargo Logistics Operations, Stakeholders, Express Delivery Services, Domestic Cargo, Role of Air Cargo in Indian Economy, Structure of International Trade (Merchandise), Trends in Inbound / Outbound Air Cargo Traffic, Performance of Air Cargo throughput in Indian Airports, Dedicated Domestic freight operations, Forecast of the air freight traffic, Drivers of Air Cargo Traffic in India.
UNIT IV  PERFORMANCE INDICATORS AND CHALLENGES

OBJECTIVE: To understand performance indicators and challenges in handling logistic operations.

Introduction – Dwell Time, Throughput efficiency at cargo terminals, Menace of Missing/Non-traceable Cargo, Challenges - Infrastructure Bottlenecks, Gaps in Key facility infrastructure at Cargo terminals in Gateway airports, Bottlenecks in truck docking, Inadequate X-ray screening facilities and lack of associated trained manpower, Absence of off-site facility such as Air Freight Station (AFS) for cargo processing, Special Cargo Infrastructure. Regulatory Hurdles and Other Processes / Procedures / Systems.

UNIT V  FACILITY DEVELOPMENT AT AIRPORTS

OBJECTIVE: To understand various facilities at airports for logistic operations.

Models for Facility Development at Airports, Promote key gateway airports as Cargo Transshipment Hubs, Promote dedicated Freighter operations, 24X7 Operations in Air Cargo complex, Promote Air Cargo educational and professional training program for capacity building, Air Cargo Infrastructure Development at Airports, Initiatives needed from Central Board of Excise and Customs, Reduce delay in processing of Export Cargo out of cargo terminals, Decongestion of warehouse, Facilitate Transshipment, Initiatives needed from Bureau of Civil Aviation Security.

TOTAL : 45 Periods

TEXT BOOKS


REFERENCES


2. Wilson & Bryon, Air Transportation.

3. Philip Locklin D, Economics of Transportation.


AIR TRANSPORTATION OVERVIEW

UNIT-I

Airline Business foundation- Commercial foundation- Key Economic, political, revenue and cost trends- Strategies airlines adopting to sustain and grow their business: Strategy development- Impact of airline- Role of change management, organizational culture and leadership in successful airline performance- Impact of new digital technological on all aspects of the airline business.

UNIT- II

Air Transport Economics- Main benefits- Economic impact- Supply, demand, pricing and market structures- Key economic characteristics of the air cargo sector- competitive market structures (monopolies and oligopolies) to obtain advantages.

UNIT- III

Air transport value chain, characteristics of each stakeholder and profitability of each air transport sector- Air transport industry regulated why and how with examples of air transport economic regulation.

UNIT- IV

Managing across culture- Explore the ways in which culture (e.g national, corporate, functional) can be analyzed using proposed frame work- Explain hoe culture influences organizations- Evaluate different approaches to managing culture differences.

UNIT-V

Public International air law: the Chicago convention Regime- Private International air law and air carrier liability- Aviation Law.

References:

BASIC PRINCIPLES OF TOURISM MANAGEMENT

Unit I:

Tourism: Concepts: Definition and historical development of Tourism Distinction between Tourist-Traveler-Visitor-Excursionist. Tourism system - Components of tourism and its characteristics-tourism Product- Types of Tourism products (TOPs, ROPs, BTEs)

Unit II:


Unit III:

Tourism Demand and Supply: Introduction to Tourism Demand; Determinants of tourism demands; Motivation and tourism demand; measuring the tourism demand. Factors affecting supply in Tourism.

Unit IV:

Tourism Impacts: Impacts: Positive and Negative Impacts of Tourism; Socio Cultural, Economic, Environmental and Political- Factors inhibiting growth of Tourism and travel industry- Global Tourism scenario and future- Growth and emerging trends in Indian Tourism.

Unit V:

International Tourism Institutions and organizations, and their role in promoting international movement- UNESCO, UNWTO, WTTC, TAAI, IATO, IATA, ITC.

Text Books:

1. A.K.Shastri: Tourism Development principles and practices
2. Seth: Tourism Management (New Delhi, Sterling)
3. Kaul: Dynamics of Tourism (New Delhi, Sterling)
ADMINISTRATIVE POLICIES OF INDIAN TOURISM

UNIT – I
Indian Tourism – current trends and development opportunities – Market study- Survey of Natural resources – Development of appropriate levels of Infrastructures (airports, seaports, inland waterways, roads, railways, water and energy supplies)

UNIT- II
Development of the appropriate legislative framework for economic activities, foreign investment, land tenure, Contracts law, Commercial law, Banking law – Promotion of foreign and domestic investment in Indian tourism.

UNIT –III

UNIT –IV

UNIT- V
Economic Impact of Tourism – Cultural impact of Indian tourism – Social impact of Tourism – Tourism as a tool for building international relationship – Professionalization of Indian Tourism.

Reference Books:


4) Tourism and Development in India, Suhita chopra, APH publishing corporation; New Delhi.

5) Tourism in the age of globalization; Binoy srivastava, Swastik Publications, New Delhi.
AVIATION SAFETY AND SECURITY

UNIT-I
Safety data management and analysis- IATA six point safety strategy- Reduce operational Risk: loss of control in flight, controlled flight into Terrain, Runway safety, Flight management system, cabin safety, fatigue, phraseology- Enhance quality and compliance.

UNIT- II
Advocate for Improved Aviation Infrastructure- consistent Implementation of safety management system – Effective Recruitment and Training – Identify and Address Emerging safety Issues.

UNIT- III

UNIT- IV

UNIT- V
Aviation security- Smart security- Passenger data- Cyber security- IATA practical advice for the airline industry- States request for data- Automated border control: biometrics, removal of deportees and inadmissible passengers; the threat to civil aviation- threat assessment and risk management- security management system and culture- Passengers security and cargo security- security quality control- contingency planning.

References:

1. Aviation and Airport Security: Terrorism and Safety Concerns, Kathleen M. Sweet
INDIAN TOURISM

Unit I:

Unit II:
Architectural Heritage of India: glimpses on the prominent architecture style flourished in different period. Different style of architecture in India - Hindu, Buddhist and Islamic. Selected case studies of World Heritage Sites in India

Unit III:

Unit IV:


Text Books:
2. Basham A. L. : Cultural History of India
3. Peroy Brown : Islamic Architecture
4. Peroy Brown : Indian Architecture
5. James Burgess : Western Cave Temples of India
GLOBAL TOURISM

Unit I

Globalization & tourism sector Globalization & the business world, the tourism industry, challenges, Factors affecting Global & regional tourist movements, Demand and origin factors, destination & resource factors. Contemporary trends in international tourist movements.

Unit II

The emergence of international hotels & tourisms .Historical aspects, development of chains, development abroad, airline connection .-Political aspects of the international travel, tourism - Barriers to travel, tourism investment & business, regulations, international organizations dealing with barriers viz : WTO, IMF, IHA, need for government support of tourism, national tourism organizations, political stability, travel advisories, political risk, crisis management

Unit III

International hotels -Balancing global & local perspectives -Operating in a multinational environment ---International rules & regulations -a brief study. Human resources & cultural diversity -Understanding cultural diversity, cultural perceptions, business protocol, cultural considerations in negotiations.

Unit IV

International tourism sales & marketing -Market research, developing an international marketing strategy, understanding various travel distribution systems viz GDS, product positioning

Unit V

Global competition & the future -Long -term tourism growth trends, tourism growth in major regions, transportation developments, technology & automation, Development issues, tourism & the environment.

References:

1. International Tourism by H.L.Bhattia
2. Contemporary tourism: an international approach-Chris Cooper&C.Michael Hail
3. International cases in Tourism Management-Susan Horner&John Susan Brooke
ENVIRONMENT AND POLLUTION CONTROL IN AVIATION INDUSTRY

UNIT- I

Global and local emissions, noise, water/waste management and biodiversity- technological, Operational and infrastructural improvement- regulation and economic imitates.

UNIT- II


UNIT- III


UNIT- IV


UNIT- V

Emission calculation: Airport activity- Air craft support equipment auxiliary power unit(APU) on road vehicles parking lots- Weather data – receptor location – Airport pollution sources-Airport Emissions Movement date –Gate emissions- Taxiway emissions- Queue emissions- Runway pre-processing and Emissions.

References:

1. Aviation and Environment –Jon C Goodman
2. Aviation, environment, and world order 1980 by Saligram Bhatt
3. Aviation and the Environment by Ruwantissa Abeyratne
5. Greening airports; advance technology and operations by Milan Janic.
6. Airport Environmental Impact- Methodology of Atmospheric Protection vol.25 Institute of Aviation scientific publication
TOURISM PLANNING & MARKETING

Unit I:

Unit II:

Unit III:
Introduction to tourism marketing, Evolution, Definition, nature, process and system services & their marketing nature, characteristics of tourism products, its issues and challenges : Marketing mix

Unit IV:
Market segmentation, Targeting and positioning. Definition of market segmentation, discussions in market segmentation, Market targeting process, product positioning – purpose, process

Unit V:

Text Books:
1. Indian Tourism Beyond the Millennium - Bezbaruah M.P. (New Delhi)
3. Tourism Dimensions : S.P. Tiwari (New Delhi)
6. Jha S.M. – Tourism Marketing (Bombay – Himalaya)
7. Gavens: Marketing Management (Delhi – Himalaya)
MODERN FORMS OF TOURISM

UNIT-I
Leisure Tourism – Destinations for Leisure Tourism around the world– Amusement parks – Historical monuments – Business tourism – Convention Tourism- Incentive tourism- Trade fairs and exhibitions.

UNIT- II

UNIT-III
Cultural and Heritage tourism- Ancient buildings, archeological sites, history and cultural – Religious tourism – Customs and traditions – festivals/fairs – folk arts and dances.

UNIT- IV
Ecotourism- Ecotourism for sustainable development – Ecotourism planning- Biodiversity conservation- Ecotourism and National resources Management- Development of Ecotourism in India.

UNIT- V
Medical and Health Tourism- Importance of Medical Tourism- Risks- Legal issues- Ethical issues- Destinations for Medical Tourism- Medical Tourism in India.

References:
1) Tourism Marketing – Ashok Manoram, Prateeksha publications, Jaipur.
SUBJECT

AVIATION GENERAL ENGINEERING

AIM: To introduce the basic concepts of aerospace engineering and the current developments in the field.

UNIT I AIRCRAFT CONFIGURATIONS 5
OBJECTIVE: To study different types of airplane – Light and Heavy.
Airplane, Components of an Airplane And Their Functions, Different Types of Flight Vehicles, Classifications, Types of Control Systems, Basic Instruments for flying.

UNIT II PRINCIPLES OF FLIGHT 10
OBJECTIVE: To understand the basic properties and physical principles of flight.
Physical properties and structure of the atmosphere, Temperature, Pressure, Density and Altitude, Generation of Lift and Drag, Aerofoils, Mach Number, Rolling, Pitching and Yawing motions.

UNIT III AIRPLANE STRUCTURES AND MATERIALS 10
OBJECTIVE: To study different materials used for construction of an airplane.

UNIT IV POWER PLANTS USED IN AIRPLANES 10
OBJECTIVE: To study different types of power plants used in aircrafts.
Basic ideas about Piston, Turboprop, Turbo shaft, Turbofan and Turbojet engines, Use of Propeller and Jets for Thrust production. Advantages and Disadvantages.

UNIT V AIRCRAFT GROUND HANDLING AND SUPPORT EQUIPMENT 10
OBJECTIVE: To study procedure of ground handling of sophisticated aircraft.

TOTAL: 45 Periods

TEXT BOOKS

REFERENCES
AVIATION GENERAL RULES AND REGULATIONS
AIM: To teach the students rules and regulations to be followed by an operator of aircraft.
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OBJECTIVE: To understand the rules of air..
Definitions – Aerodrome, Aeroplane, Air traffic, Alternate aerodrome, Apron, Controlled aerodrome, Controlled airspace, Manoeuvring area, Pilot-in-command, Psychoactive substances, Taxiway, Applicability Of The Rules Of The Air, Compliance with the Rules of the air, Problematic use of psychoactive substances, General Rules - Protection of persons and property, Avoidance of collisions, Lights to be displayed by aircraft, Signals - Distress And Urgency Signals
UNIT II OPERATION OF COMMERCIAL AIR TRANSPORT - AEROPLANES 9
OBJECTIVE: To understand the rules of operation of aeroplanes.
UNIT III CRITERIA FOR LEASING OF AIRCRAFT BY INDIAN OPERATORS 8
OBJECTIVE: To understand the procedure and rules of leasing of aircrafts.
Introduction, Operations with leased aircraft, Foreign registered aircraft leased to Indian operators, Indian registered aircraft leased to foreign operator, Leasing aircraft from one Indian operator to another Indian operator, Grant of Permission.
UNIT IV REGISTRATION / Deregistration OF AIRCRAFT 10
OBJECTIVE: To understand the procedure of registration and deregistration of aircraft.
Definitions, Classification of Aircrafts, Procedure For Registration of Aircraft, Application For Registration of Aircraft, Change of Ownership, Aircraft Imported By Air, Registration Certificate And Validity of Registration of Aircraft, Issue of Duplicate Certificate of Registration, Cancellation of Registration of Aircraft, Fixation of Nationality And Registration Markings, Identification Plate, Registration fees.
UNIT V PROVISION OF MEDICAL SUPPLIES IN AIRCRAFT 9
OBJECTIVE: To provide knowledge of medical assistance available in aircraft during emergency.
First- Aid Kit, Medical Kit, Universal Precaution Kit, Requirement of Medical Supplies, Contents of The First-Aid Kit, Contents of Medical Kit, Contents of Universal Precaution Kit, Periodic Examination of The Kit, General Requirements.
TOTAL : 45 Periods
TEXT BOOKS
2. Aeronautical Information Circulars.

REFERENCES

SUBJECT
HANDLING OF AVIATION LOGISTICS

AIM: To study the concepts of air transportation and cargo management of aircraft.

UNIT I REQUIREMENTS FOR AIR TRANSPORT CARGO SERVICES IN INDIA

OBJECTIVE: To understand rules for air cargo services in India.

Air Cargo Operations, Eligibility Requirements, Procedural Requirements, Aircraft And Airworthiness Requirements, Operational Requirements, General Requirements.

UNIT II MANAGING AIR CARGO SERVICES

OBJECTIVE: To understand air cargo management.


UNIT III AIR CARGO LOGISTICS IN INDIA

OBJECTIVE: To understand network of air cargo logistics in India.

Introduction, Air Cargo Logistics Operations, Stakeholders, Express Delivery Services, Domestic Cargo, Role of Air Cargo in Indian Economy, Structure of International Trade (Merchandise), Trends in Inbound / Outbound Air Cargo Traffic, Performance of Air Cargo throughput in Indian Airports, Dedicated Domestic freight operations, Forecast of the air freight traffic, Drivers of Air Cargo Traffic in India.

UNIT IV PERFORMANCE INDICATORS AND CHALLENGES

OBJECTIVE: To understand performance indicators and challenges in handling logistic operations.

Introduction – Dwell Time, Throughput efficiency at cargo terminals, Menace of Missing/Non-traceable Cargo, Challenges - Infrastructure Bottlenecks, Gaps in Key facility infrastructure at Cargo terminals in Gateway airports, Bottlenecks in truck docking, Inadequate X-ray screening facilities and lack of associated trained manpower, Absence of off-site facility such as Air Freight Station (AFS) for cargo processing, Special Cargo Infrastructure, Regulatory Hurdles and Other Processes / Procedures / Systems.

UNIT V FACILITY DEVELOPMENT AT AIRPORTS

OBJECTIVE: To understand various facilities at airports for logistic operations.
Models for Facility Development at Airports, Promote key gateway airports as Cargo Transshipment Hubs, Promote dedicated Freighter operations, 24X7 Operations in Air Cargo complex, Promote Air Cargo educational and professional training program for capacity building, Air Cargo Infrastructure Development at Airports, Initiatives needed from Central Board of Excise and Customs, Reduce delay in processing of Export Cargo out of cargo terminals, Decongestion of warehouse, Facilitate Transshipment, Initiatives needed from Bureau of Civil Aviation Security.

**TOTAL : 45 Periods**

**TEXT BOOKS**

**REFERENCES**
2. Wilson & Bryon, Air Transportation.
3. Philip Locklin D, Economics of Transportation.
SUBJECT
HANDLING OF AVIATION LOGISTICS

AIM: To study the concepts of air transportation and cargo management of aircraft.

UNIT I REQUIREMENTS FOR AIR TRANSPORT CARGO SERVICES IN INDIA 5

OBJECTIVE: To understand rules for air cargo services in India.

Air Cargo Operations, Eligibility Requirements, Procedural Requirements, Aircraft And Airworthiness
Requirements, Operational Requirements, General Requirements.

UNIT II MANAGING AIR CARGO SERVICES 10

OBJECTIVE: To understand air cargo management.

Introduction, History of Air Cargo, Cargo-Only Carriers, Combination Carriers, Integrators,
Managing Air Cargo
Successfully - Fleet Management and Network Planning, Operations Management, E-Commerce,
Marketing,
Product Management, and Pricing, Challenges - Air cargo operations at airports, Pricing and revenue
management,
Security.

UNIT III AIR CARGO LOGISTICS IN INDIA 10

OBJECTIVE: To understand network of air cargo logistics in India.

Introduction, Air Cargo Logistics Operations, Stakeholders, Express Delivery Services, Domestic
Cargo, Role of
Air Cargo in Indian Economy, Structure of International Trade (Merchandise), Trends in Inbound /
Outbound Air
Cargo Traffic, Performance of Air Cargo throughput in Indian Airports, Dedicated Domestic freight
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Forecast of the air freight traffic, Drivers of Air Cargo Traffic in India.

UNIT IV PERFORMANCE INDICATORS AND CHALLENGES 10

OBJECTIVE: To understand performance indicators and challenges in handling logistic operations.

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Challenges - Infrastructure Bottlenecks, Gaps in Key facility infrastructure at Cargo terminals in
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manpower,
Absence of off-site facility such as Air Freight Station (AFS) for cargo processing, Special Cargo
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Regulatory Hurdles and Other Processes / Procedures / Systems.

UNIT V FACILITY DEVELOPMENT AT AIRPORTS 10

OBJECTIVE: To understand various facilities at airports for logistic operations.

Models for Facility Development at Airports, Promote key gateway airports as Cargo Transshipment
Hubs,
Promote dedicated Freighter operations, 24X7 Operations in Air Cargo complex, Promote Air Cargo
educational
and professional training program for capacity building, Air Cargo Infrastructure Development at
Airports,
Initiatives needed from Central Board of Excise and Customs, Reduce delay in processing of Export
Cargo out of
cargo terminals, Decongestion of warehouse, Facilitate Transshipment, Initiatives needed from Bureau of Civil Aviation Security.

**TOTAL : 45 Periods**

**TEXT BOOKS**

**REFERENCES**
2. Wilson & Bryon, Air Transportation.
3. Philip Locklin D, Economics of Transportation.