AVIATION MANAGEMENT

VIII Semester: AE

Course Code	Category	Hou	ırs / W	eek Credits Maximum Marks				
AAE019	Core	L	Т	Р	С	CIA	SEE	Total
		3	-	-	3	30	70	100
Contact Classes: 45	Tutorial Classes:Nil	Practical Classes: Nil			Total Classes: 60			

OBJECTIVES:

The course should enable the students to:

- I. Understand about the history of aviation, major player's airline industry, current trends and challenges.
- II. Impart the knowledge on airport planning, airport operation and various authorities involved in airport management.
- III. Understand and gain the knowledge on the meteorological services, environmental regulation and airport fee, rates and charges.
- IV. Gain the in depth knowledge on safety regulation, economic regulation and aviation security.
- V. Understand about the air traffic control, air space and navigational aid.

COURSE OUT COMES(COs):

CO1: Gain knowledge about Airline industry and Analysis of different market potential.

CO2: Understand Airport planning different types of privatizations.

CO3: Understand the importance and role of private operators.

CO4: Identify the methodology followed by ATC & DGCA.

CO5: Understand the role of air traffic control and the navigational aids.

COURSE LEARNING OUTCOMES (CLOs):

- 1. Provide knowledge on history of aviation industry.
- 2. Understand airport system planning, airport master plan, airport lay out plan.
- 3. Demonstrate governmental requirements on non-passenger related airport authority functions.
- 4. Explain Air Traffic Services Describe the history and development of Air Traffic Services (ATS).
- 5. Differentiate between private airports and public use airports, commercial service airports and primary commercial service airports.
- 6. Discuss and identify the economic, political and social role of airports.
- 7. Describe airport layout incorporating its different features navigation Explain air traffic rules and procedures.
- 8. Explain construction of runway and taxiway and aprons as per geometric design for all parameters.
- 9. Define the requirements of terminal area as per drawing, design and describe the visual aids for air traffic control system.
- 10. Explain various elements of Heliports and its planning aspects.
- 11. Understanding the Various Airport services- international air transport services Indian Scenario
- 12. Understand the role of private operators- Airport development fees, Rates & Tariffs.
- 13. Understanding the role DGCA from the certification
- 14. Knowledge on the role of air traffic control in airspace & navigational aids with live examples
- 15. Understanding different cases in airline industry. Explore the use of learning about how airports work, especially about airport safety and international aviation laws.

UNIT-I	INTRODUCTION	Classes: 10			
players in Airli Airline industr	ation- organization, global, social & ethical environment-history of aviation ine industry-Swot Analysis of different Airline companies in India- market p y in India- new airport development plans-current challenges in airline indus stry- Domestic & International from an Indian perspective	otential of			
UNIT-II	AIRPORT INFRASTRUCTURE AND MANAGEMENT	Classes: 10			
organization st	ng – Terminal planning design & operation -Airport operations – A ructure in an Airline – Airport Authority of India- comparison of global of Role of AAI -Airline privatization – Full privatization- Gradual privatization	& Indian Airport			
UNIT-III	AIR TRANSPORT SERVICES	Classes: 09			
	rt services- international air transport services – Indian Scenario- An overvie i, Hyderabad & Bangalore. The role of private operators- Airport developme				
UNIT-IV	INSTITUTIONAL FRAMEWWORK	Classes: 09			
Role of DGCA economic Reg	A-Slot allocation -Methodology followed by ATC & DGCA – manageme alations.	nt of bi-laterals –			
UNIT-V	CONTROLLING	Classes: 07			
	fic control- airspace & navigational aids- control process – case study in airl airport privatization-Navi Mumbai airport tendering process- six cases in th	-			
Text Books:					
	A Managing airports - an International Perspective butter worth-heinemann . Airport Planning and Management, 4 th edition McGraw-Hill, London 2000				
Reference Boo	oks:				
 Alexander t. wells, seth young, Principles of Airport management, McGraw-hill 2003Y. V. C. Rao, Richard de neufille, Airport systems: Planning, Design & Management, McGraw-hill London 2007. 					
Web Reference	es:				
ement.pdf 2. https://boo	nberfiles.freewebs.com/94/47/55224794/documents/airport%20planning%20 ks.google.co.in/books?id=RYR6cu4YSBcC&dq=Planning%20and%20Desig urce=gbs_similarbooks	-			
E-Text Books	:				
_	cessengineeringlibrary.com/browse/airport-planning-and-management-sixth	-edition			
2. https://ww	w.only4engineer.com/2014/10/planning-and-design-of-airports-by.html				