

COURSE CODE	COURSE TITLE	L	T	P	C
1152AE151	AIRCRAFT RULES AND REGULATIONS-II	3	0	0	3

Course Category:

Program Elective

a. Preamble :

This course deals with the Rules and Regulations of DGCA for the operation of aircraft - an airworthy.

b. Prerequisite Courses:

- Aircraft General Engineering and System Maintenance

c. Course Educational Objectives :

- To teach the civil air rules and regulations which are being followed by Directorate General of Civil Aviation.

d. Course Outcomes :

Upon the successful completion of the course, students will be able to:

CO Nos.	Course Outcomes	Knowledge Level (Based on revised Bloom's Taxonomy)
CO1	To describe the aircraft maintenance programme and defects investigation	K2
CO2	To Illustrate the Airworthiness of aircraft and organization approval	K2
CO3	To explain the classification and requirements of AME license	K2
CO4	To describe about aircraft registration and markings	K2
CO5	To describe about the various type certificate	K2

e. Correlation of COs with POs:

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	H	H	H		H		H					H
CO2	H	H	M		M			H				L
CO3	H	H			M	H			H			H
CO4	H	M			H		H				H	H
CO5	H	H			H							H

H- High; M-Medium; L-Low

f. Course Content

UNIT 1 MANDATORY MODIFICATIONS/ INSPECTIONS 9
Defects and Defective Parts, Maintenance Standards and Certification, Defect Recording, Reporting, Investigation, Rectification and Analysis, Age of Aircraft to Be Imported for Scheduled / Non-Scheduled Including Charter, General Aviation and Other Operations

UNIT II AIRCRAFT ORGANIZATION APPROVAL 9
Conditions necessary for the certificate of airworthiness, Special Certificate of Airworthiness, Review Certificate, overhaul of aircraft, Suspension or cancellation or special certificate of airworthiness, issue of Special Flight Permit, approval of organization, acceptance of FAMO, FAO, aircraft type rating, Approved Basic Maintenance Training Organization

UNIT 3 AIRCRAFT LICENSING REQUIREMENTS 9
Issue of authorization to Aircraft Maintenance Engineers, Approval of Flight Engineer Examiners, Procedure for issue/ renewal/ extension of AME license, Validation of Foreign Licenses of AME's, Validation of licenses of foreign AME's

UNIT 4 REGISTRATION AND DEREGISTRATION OF AIRCRAFT 9
Issue/validation and suspension of Certificate of Airworthiness, Special Flight permits, Design, Manufacture, Registration and requirements for Operation of Aircraft, hot air balloons, Instruments and equipment, Weight and balance

UNIT 5 ISSUE OF TYPE CERTIFICATE 9
Issue /validation of Type Certificate or Restricted Type Certificate for an aircraft, aeronautical products, Aeronautical product categories, Cancellation, suspension of or endorsement on, Recognition of Type Certificate or Restricted Type Certificate. Issue of, Recognition of supplementary type certificate of an aeronautical products, Regulation and control of aircraft components and items of equipment

Total – 45 Periods

Text Books

1. “Civil Aviation Requirements with latest Amendment (Section 2 Airworthiness)” – Published by DGCA, The English Book Store, 17-1, Connaught Circus, New Delhi 2000.
2. Aeronautical Information Circulars (relating to Airworthiness) from DGCA 2000.

Reference

1. “Aircraft Manual (India) Volume” – Latest Edition, The English Book Store, 17-1, Connaught Circus, New Delhi.
2. Advisory Circulars from DGCA 2003.