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AE6012 AIR TRAFFIC CONTROL AND PLANNING

DETAILED SYLLABUS

OBJECTIVES

 To study the procedure of the formation of aerodrome and its design and air traffic control.

UNIT I BASIC CONCEPTS

Objectives of air traffic control systems - Parts of ATC services - Scope and Provision of ATCs - VFR & IFR operations - Classification of ATS air spaces - Various kinds of separation - Altimeter setting procedures - Establishment, designation and identification of units providing ATS - Division of responsibility of control.

UNIT II AIR TRAFFIC SYSTEMS

Area control service, assignment of cruising levels - minimum flight altitude - ATS routes and significant points - RNAV and RNP - Vertical, lateral and longitudinal separations based on time / distance -ATC clearances - Flight plans - position report

UNIT III FLIGHT INFORMATION SYSTEMS

Radar service, Basic radar terminology – Identification procedures using primary / secondary radar – performance checks – use of radar in area and approach control services – assurance control and co- ordination between radar / non radar control – emergencies – Flight information and advisory service – Alerting service – Co-ordination and emergency procedures – Rules of the air.

UNIT IV AERODROME DATA

Aerodrome data - Basic terminology - Aerodrome reference code - Aerodrome reference point - Aerodrome elevation - Aerodrome reference temperature - Instrument runway, physical Characteristics; length of primary / secondary runway - Width of runways - Minimum distance between parallel runways etc. - obstacles restriction.

UNIT V NAVIGATION AND OTHER SERVICES

Visual aids for navigation Wind direction indicator – Landing direction indicator – Location and characteristics of signal area – Markings, general requirements – Various markings – Lights, general requirements – Aerodrome beacon, identification beacon – Simple approach lighting system and various lighting systems – VASI & PAPI - Visual aids for denoting obstacles; object to be marked and lighter – Emergency and other services.

TEXT BOOK

1. AIP (India) Vol. I & II, "The English Book Store", 17-1, Connaught Circus, New Delhi.

REFERENCES

- 1. "Aircraft Manual (India) Volume I", latest Edition The English Book Store, 17-1, Connaught Circus, New Delhi.
- 2. "PANS RAC ICAO DOC 4444", Latest Edition, The English Book Store, 17-1, Connaught Circus, New Delhi.