

Air Traffic Control

Syllabus Number

2E203

Basic Major Subjects

Elective Requisites 2
credit

IMAI, Michio

1. Course Description

Students will learn about areas where air traffic control is carried out. Also, students will learn about the tasks and the utilization. Mainly, this course is a lecture style, but practical training may be held as needed. Please study knowledge and technique related to DP2.

This course is taught by teachers with practical experience. The instructor is involved in the helicopter operation in a company, and in class, discussions are held on topics such as actual examples and actual experiences in the company and issues on the site.

2. Course Objectives

Students will study about air traffic control systems currently in operation. Understand how aeronautical safety is secured by those systems. Also, please study the English vocabularies related to air traffic control and various rules.

3. Grading Policy

This course is evaluated by the result of the exam (80%) and quizzes (20%).
The answer of each quiz will be explained.

4. Textbook and Reference

Textbook

Introduction to Air Traffic Control

Air Traffic Control Association, ISBN 978-4-906211-10-4

Reference

AIM-j Latest issue of JAPA, ISBN 978-4-931160-02-6

DVD on air traffic control

5. Requirements(Assignments)

Look up the meanings of assigned air traffic control vocabularies in notebooks, as preparation for next class.(1 hour)

Assignments to review will be given in each class. Accomplish them before next class.(2 hours)

6. Note

Test the comprehension with quizzes.

7. Schedule

- [1] Learn the history of air traffic control.
- [2] Learn vocabularies used in air traffic control service.
- [3] Learn the definition of vocabularies used in air traffic control service.
- [4] Overview of traffic control – Learn series of air traffic control service.
- [5] Overview of traffic control – Learn authorities providing air traffic control service.
- [6] Learn about airspace of Japan.
- [7] Learn about airspace of Japan and restricted airspace.
- [8] Learn about air traffic control equipment, aviation laws.
- [9] Learn general procedures of air traffic control (separation of IFR)
- [10] Learn general procedures of air traffic control (aerodrome)
- [11] Learn the flow of air traffic control (VFR).
- [12] Learn the flow of air traffic control (IFR)
- [13] Learn about safety support devices.
- [14] Emergency procedure, search and rescue, procedure malfunction of radio equipment.
- [15] Summary (Kanto airspace and air traffic control) / Final exam.