

Aeronautical Meteorology2

Syllabus Number 2E219

Basic Major Subjects

Elective 2 credit

IMAI, Michio

1. Course Description

Learning practical knowledge of weather for pilots.

Analyze all weather related information such as weather reports, weather charts and other data. Also, link all those information to take-off / landing and flight operation, in order to execute safe, comfortable, and efficient flight with the right decision. Mainly, this course is a lecture style, but practical training may be held from the 10th.

Please learn knowledge about DP2.

2. Course Objectives

Condition of atmosphere is diverted and causes various weather phenomenon. Those phenomenon affect operation of aircrafts and flight plans` feasibility. Knowledge of weather is mandatory subject for pilots. The objective is to learn the knowledge of the weather, to clear the feasibility of flight plan prior a flight and be able to make a decision in weather condition of a flight route, in order to execute safe and comfortable flight operation.

3. Grading Policy

This subject is evaluated by the result of the exam (80%) and quizzes (20%).

The answer of each quiz and weather briefing will be explained.

4. Textbook and Reference

Textbook

Toshitsuna Ichiki Air Meteorology Lecture Note

Höbunshorin , ISBN 978-4-89279-433-9

5. Requirements(Assignments)

Review assigned vocabularies in notebooks, before each class.(1 hour)

Simple quizzes will be assigned in each class, for review.

Learn necessary knowledge for the practical training in this course.

Review and organize the knowledge in notebooks.(2 hours)

6. Note

Acquire a habit of comparing real situation with weather forecast on TV.

7. Schedule

- [1] Learn aircraft operation and weather information.
- [2] Learn about meteorological observation.
- [3] Learn about kinds of meteorological telegrams, code names, and contents.
- [4] Learn analysis of meteorological observation report, weather phenomenon.
- [5] Learn analysis of meteorological observation report and visibility.
- [6] Learn analysis of meteorological observation report and cloud.
- [7] Learn about analysis of weather forecast.
- [8] Learn about Icing.
- [9] Learn about surface weather chart and surface weather forecast chart.
- [10] Learn about upper air chart and upper air forecast chart.
- [11] Learn weather checking before departures.
- [12] Learn overview order of weather briefing.
- [13] Make a demonstration (presentation) of weather briefing.
- [14] Make a demonstration (presentation) of weather briefing.
- [15] Overview / Final Exam