### Course Title
Advanced Horticultural Science

### Instructor
Eiichi INOUE

### Code
MA050600

### Semester
1st (April-)

### Credit(s)
1

### Day／Period
Thu, 5

### Description Code
A-PEA-611

### Outline
In the horticultural production, the growers, professionals and the researchers must use the various plant resources and their products efficiently to meet the various demands from the consumers. This lecture show some cases of the domestication, breeding and post harvest technology about major horticultural plants.

### Keywords
Vegetable, Fruit tree, Origin, Genetic improvement, genetic resource, Post harvest technology

### Goals
To understand the domestication, breeding and post harvest technology in horticultural crops.
Diploma Policy: 1 Academic and research skills in the specialized field.

### Course Plan
1. Guidance based on the syllabus. Chasm between basic research and practical horticulture
2. The present status and problems of the horticulture in Japan
3. Origin and domestication of major horticultural plants. (1) Vegetable
4. Origin and domestication of major horticultural plants. (2) Fruit tree
5. Genetic resource and breeding in horticultural plants. (1) Vegetable
6. Genetic resource and breeding in horticultural plants. (2) Fruit tree
7. Post-harvest technology in major horticultural crops. (1) Vegetable
8. Post-harvest technology in major horticultural crops. (2) Fruit tree

### Advice for Preview and Review
I recommend the preparations and reviewing about the lecture by using the text provided.

### Prerequisite
This lecture was constructed on the basic knowledge base about horticulture.
Office hours: From 13:00 to 15:00 on Thursday at room 316.

### Grading Criteria
Discussion, 30% / Report, 70%

### Texts/References
1. Reference book for Prior learning
   "Introduction to Horticultural Science -Second edition-“ Richard N. Arteca, CENGAGE, $209.95
2. Text
   Texts will be provided by REANDI online.