

Module Code	19349027	Course Term
Course Subject Name	Plant Production and Physiology	Spring
Course Tutor	Kazuyuki SAITO, Yushi ISHIBASHI, Takahiko KUBO, Kazuhiro IIYAMA, Kaori SAKAI	The 6th Semester
Credit	2	Taught Day
Schools	School of Agriculture	MON-2
Taught Year	The 3rd year	
Campus	Ito campus	
Subject Area	Lecture	
Course Subject Classification	Specialized Subjects	Monday, 2nd period (10:30-12:00)
Course Requirements		
Course Requirement (Pre-requisite)		
Course Outline		
Exercises will be done on how to perform experiments related to plant production and physiology. Throughout this course, there will be a strong emphasis on good laboratory practice, data handling and problem-solving skills.		
key words		
Plant transformation, Fruit trees, Plant-associated microorganisms, Environmental stress response, Dormancy, Plant reproduction.		
Study Objectives (General)		
The course students learn the following: Laboratory practice in experiments related to plant production and physiology. Handling of basic analytical instruments. Handling of chemical data & interpreting them. Handling of microorganisms.		
Study Objectives (Specific) The course aims to achieve the following:		
<ol style="list-style-type: none"> 1. Students can understand plant transformation methods. 2. Students can understand fruit production and physiology. 3. Students can understand microbiology. 4. Students can understand plant growth under environmental stress. 5. Students can understand a major mechanism of plant reproductive development. 		
Course Plan		
1-3: Plant transformation (Saito) 4-6: Plant growth regulators in fruit production (Sakai) 7: What is plant-associated microorganisms? lecture on basic microbiology (Iiyama) 8: Isolation and culture of microorganisms (Lecture & Experiment) (Iiyama) 9: Classification of microorganism (Lecture & Experiment) (Iiyama) 10-12: Plant response to environmental stresses (Ishibashi) 13-15: Plant reproduction (Kubo)		
Course Approaches		
Textbooks		
Reference Books	Plant Physiology, Fifth Edition Fifth Edition by Lincoln Taiz & Eduardo Zeiger, Sinauer Associates, Inc	
Study consultation (office hour)	ksaitou@agr.kyushu-u.ac.jp, yushi@agr.kyushu-u.ac.jp, takubo@agr.kyushu-u.ac.jp, iiyama@grt.kyushu-u.ac.jp, sakai@farm.kyushu-u.ac.jp	
Exams/Results Evaluation Method	<ol style="list-style-type: none"> 1. Attitude in the discussion 2. Attendance of the experiment 3. Examination 	
Others		