Module Code	19349021	Course Term
Course Subject Name	**Special Lecture on Advanced Topic of Agriculture 1**	Spring Semester
Course Tutor	**HYUNJUNG BANG**	
Credit	2	Taught Day
Schools	School of Agriculture	TUE-4
Taught Year	The 1st year	
Campus	Ito campus	
Subject Area	Lecture	
Course Subject Classification	Common basic subject	4th Period (14:50-16:20)
Course Requirements	None	
Course Requirement (Pre-requisite)	None	

Course Outline

This course will provide a line of experiments and field works related to agriculture and life sciences. Students will gain introductory techniques and knowledge of real field of agricultural study and production.

key words

Biochemistry, Molecular biology, information science, field visit

Study Objectives (General)

Students are expected to understand typical research fields of agricultural sciences, including biochemistry and molecular biology. In addition, they will visit several field of agriculture such as fams and food factory, to gain actual viewpoints of bioresouce production.

Study Objectives (Specific)

These experiments and field visits are closely related to lecture courses in agriculture, making tight connections between the lecture knowledge and their industrial applicaion.

Course Plan

1. Orientation
2. Extraction and analysis of chlorophyll
3. Identification of medaka sex based on genotypic and phenotypic analyses 1
4. Experiment on lysozyme
5. Assay of anthocyanin in vegetables
6. Evaluation methods of horticultural crops
7. Rice seedling activity at JA Itoshima
8. Usage of information technology in agriculture and its potential
9. Basic equipment in cell and molecular biology
10. Evaluation methods of horticultural crops
11. Mentaiko factory visit
12. Identification of medaka sex based on genotypicand phenotypic analyses 2
13. Rice planting (farm visit) for details TBA
14. (Will be informed during the semester)

Course Approaches	Lecture, experiments, and field visit
Textbooks	None
Reference Books	None
Study consultation (office hour)	Office Hours: By email or appointment
	Email: bang@agr.kyushu-u.ac.jp
Exams/Results Evaluation Method	1. Final reports (50%)
	2. Class participation (50%)
Others	

2018/1/30 ver.1

Special Lecture on Advanced Topics of Agriculture 1 (2019)

Class	Date	Day	Topic	Instructor	Experiment /Field	Meeting venue	Email
1	4/9	Tuesday	Orientation	BANG	Lecture	723	bang@agr.kyushu-u.ac.jp
2	4/15	Monday	Extraction and analysis of chlorophyll	Drummond	Experiment	723	d.drummond@agr.kyushu-u.ac.jp
3	4/23	Tuesday	Identification of medaka sex based on genotypic and phenotypic analyses 1	Ogino	Experiment	723	ogino@agr.kyushu-u.ac.jp
4	5/7	Tuesday	Experiment on lysozyme	Nakao	Experiment	723	mikimnakao@kyudai.jp
12	5/13	Monday	Assay of anthocyanin in vegetables	Drummond	Experiment	723	d.drummond@agr.kyushu-u.ac.jp
5	5/14	Tuesday	Evaluation methods of horticultural crops	Mizunoe	Experiment	723	mizunoe@agr.kyushu-u.ac.jp
6	5/19	Sunday	Rice seedling activity at JA Itoshima	BANG	Field	Parking in front of Big Orange (08:45am)	bang@agr.kyushu-u.ac.jp
7	5/23	Thursday	Usage of information technology in agriculture and its potential	Okayasu	Field	Parking in front of West 5 East (14:30pm)	okayasu@bpes.kyushu-u.ac.jp
8	5/28	Tuesday	Basic equipment in cell and molecular biology	Tse	Experiment	723	kftse@agr.kyushu-u.ac.jp
9	6/4	Tuesday	Evaluation methods of horticultural crops	Mizunoe	Experiment	723	mizunoe@agr.kyushu-u.ac.jp
10	6/11	Tuesday	Mentaiko factory visit	Nakao	Field	Parking in front of West 5 East (14:30pm)	mikimnakao@kyudai.jp
11	6/18	Tuesday	Identification of medaka sex based on genotypicand phenotypic analyses 2	Ogino	Experiment	723	ogino@agr.kyushu-u.ac.jp
13	6/30	Sunday	Rice planting (farm visit) for details TBA	BANG	Field	Parking in front of Big Orange (08:45am)	bang@agr.kyushu-u.ac.jp
14	7/9	Tuesday	Will be informed during the semester	Hamaoka	Experiment	723	nohamaoka@agr.kyushu-u.ac.jp
15	7/23	Tuesday	予備日			723	bang@agr.kyushu-u.ac.jp
16	7/30	Tuesday	予備日			723	bang@agr.kyushu-u.ac.jp

[Note]

1. The first class takes place at the room #723 of West 5.
2. Bring your lab coat on the experimental day.
3. Submit your report according to the instruction of the professors of the week.
4. Rice planting may be rescheduled to another day.