

Module Code	18349004	Course Term	
Course Subject Name	<b>Introduction to Bioresource and Bioenvironmental Sciences 1</b>	<b>Autumn Semester</b>	
Course Tutor	<b>Kazuo Ogara, Hyunjung BANG</b>		
Credit	2		Taught Day
Schools	School of Agriculture		<b>TUE-4</b>
Taught Year	<b>The 2st year</b>		
Campus	Ito campus	Tuesday, 4th period (14:50-16:20)	
Subject Area	Lecture		
Course Subject Classification	Tutorial		
Course Requirements	None		
Course Requirement (Pre-requisite)	None		

### Course Outline

This course will provide an introductory but comprehensive view on bioresource and bioenvironmental sciences studies in the school of agriculture, Kyushu University, including fundamentals of plant and animal production and their surrounding areas of sciences.

### key words

agriculture, plant, animal, ecology, economics, rural sociology, argi-sysytem, production

### Study Objectives (General)

Students are expected to understand how the plant and animal resources are produced, managed and consumed with further processing. The also understand environmental, social, and economical issues related agriculture.

### Study Objectives (Specific)

- Students will develop understanding of fundamentals of agricultural plant and animal production, and their related sciences.
- Students will develop skills in critical thinking and research design
- Students will understand local and global issues related to agriculture.

### Course Plan

1. What is agriculture?
2. Global warming and agriculture
3. Production of animal resources
4. Non-biological aspect of agriculture
5. Bioresource as biological active agent for cosmetics, aroma, and functional foods
6. Bioresource as food and its safety
7. Production of botanical resources
8. Sustainable agriculture
9. Bioresource as energy production
10. Economic aspect of agriculture
11. Documentation methods
12. Biodiversity and bioresource
13. Social issues in agriculture
14. Student presentation
15. Final exam

<b>Course Approaches</b>	Lecture
<b>Textbooks</b>	None
<b>Reference Books</b>	None
<b>Study consultation (office hour)</b>	Office Hours: By email or appointment Email: bang@agr.kyushu-u.ac.jp
<b>Exams/Results Evaluation Method</b>	1. Attendance (54%) and three assignments (13%) 2. Presentation (13%) 3. Final exam (20%)
<b>Others</b>	