

1. Course Title (Course Code)

ICT4D Special Experiment 3 (2284)

2. Instructor

Takakazu Yano

3. Term

Fall 3 Semester (18)

Spring 1 Semester (12)

4. Outline and Objectives

Objective of the course is to understand the procedure, problems and points in the cases of the problem solving by using ICT, through the inspecting to the field. The Fields in this year will be conducted on the disaster prevention and the agriculture.

The course will be “hands-on” and will be conducted as a “practicum”.

5. Goals (Attainment Targets)

At the end of the course, it is expected that students will gain expertise in:

- (1) Understand the contents definitely and can explain the structure and effect, through the examples of the ICT utilization.
- (2) Could show the remedy by finding problems about the examples mentioned above.
- (3) Could show the utilization plans in your countries.

6. Correspondence relationship between Educational goals and Course goals

Educational goals			Course goals
High level ICT skill	Basic academic skills		
	Specialized knowledge and literacy		(1), (2), (3)
Human skill (Tankyu skill)	Ability to continually improve own strengths		
	Ability to discover and resolve the problem in society	Problem setting	(2), (3)
		Hypothesis planning	(2), (3)
		Hypothesis testing	
		Practice	
	Fundamental Competencies for Working Persons	Ability to step forward	
		Ability to think through	(1), (2), (3)
		Ability to work in a team	(2), (3)
Professional ethics			

7. Course Requirements

None

8. Textbooks

Course does not require specific text books.

9. Reference Books

Since the ICT4D special experiment is a practical course, no specific text book is assigned at the composition of this Syllabus.

10. Evaluation

Goals	Evaluation method & point					
	term-end exam	quiz	report	presentation	deliverable	other
(1)			○			
(2)				○		
(3)				○	○	
Allocation			30	40	30	

11. Notes

You may inspect the spots in conjunction with the examples. In the cases of a neighborhood, the transportation expenses to there are paid privately.

But inspection and the route may be changed on account of the schedules etc.

Course Schedule

(Notice) This schedule is a tentative plan, there might be changes, additions, revisions etc. at the time of delivering the course.

Lesson 1: Introduction to the application of ICT in the fields of the nature disaster and Agriculture. (Lecture/Discussion, 90min)

1. Expectation for the course and explanation of practicum structure
2. General Introduction among group

Lesson 2: Introduction to the application of ICT in the fields of the nature disaster. (Lecture/Discussion, 90min)

1. Group work : Share the examples of the nature disaster in your country
2. The examples of the nature disaster in Japan

Lesson 3: Introduction to the application of ICT in the fields of the nature disaster. (Lecture/Discussion, 90min)

1. Explain the observation system of Japan in the natural disaster
2. Explain the structure of the new disaster prevention by the private service
3. Understand this example deeply: exchanging of opinions and presentation by group work

Lesson 4: Example 1. About the application of ICT to earthquakes (Lecture/ Discussion, 90min)

Lecture by the special lecturer

1. About an earthquake disaster in Kobe city:
2. About earthquake measures and ICT utilization of Kobe city
3. Understand this example deeply: exchanging of opinions and presentation by group work

Lesson 5-6: Example 1. About the application of ICT to earthquakes (Inspection, 180min)

1. Inspection to the disaster prevention center of Kobe city
2. Make a report about the inspection (homework)

Lesson 7: Example 1. About the application of ICT to the flood in the river (Discussion, 90min)

1. Share your reports by group work
2. Look back of the inspection: exchanging of opinions and presentation by group work
3. Discover the problems in this example: exchanging of opinions and presentation by group work

Lesson 8: Example 1. About the application of ICT to the flood in the river (Discussion/Presentation, 90min)

1. Make "Tankyu chart" : make the remedy about the problem that you discovered by group work
2. Presentation and exchanging of opinions

Lesson 9: Example 2. About the application of ICT to the flood in the river
(Lecture/ Discussion, 90min)

1. Exchange the opinions and presentation about the flood ,Tsunami and etc. in your country by group work
2. About the cases of a flood and Tsunami in Japan
3. About ICT utilization in those cases
4. Explain on the accident about the example

Lesson 10: Example 2. About the application of ICT to the flood in the river
(Lecture/ Discussion, 90min)

1. Explain the system about the example
2. Explain the development process about the example
3. Understand the example deeply: exchanging of opinions and presentation by group work

Lesson 11-12: Example 2. About the application of ICT to the flood in the river
(Inspection, 180min)

1. Inspect the setting place of the system of the example
2. Confirm the neighboring situation
3. Make a report about the inspection (homework)

Lesson 13: Example 2. About the application of ICT to the flood in the river
(Group work /Discussion, 90min)

1. Share your reports by group work
2. Look back of the inspection: exchanging of opinions and presentation by group work

Lesson 14: Example 2. About the application of ICT to the flood in the river
(Group work, 90min)

1. Discover the problems in this example: exchanging of opinions and presentation by group work

Lesson 15: Example 2. About the application of ICT to the flood in the river
(Group work/Discussion, 90min)

1. Make "Tankyu chart" : make the remedy about the problem that you discovered by group work

Lesson 16: Example 2. About the application of ICT to the flood in the river
(Presentation/Discussion, 90min)

1. Presentation and exchanging of opinions by group work

Lesson 17: About the application of ICT to Agriculture (Lecture/Discussion, 90min)

1. Share the problems of the agriculture in your countries by group work
2. Explain the problems of the agriculture in Japan
3. Understand the example deeply: exchanging of opinions and presentation by group work

Lesson 18: About the application of ICT to Agriculture (Lecture/Discussion, 90min)

1. Share the ICT utilization cases of the agriculture in your countries by group work
2. Explain the ICT utilization cases of the agriculture in Japan
3. Understand the example deeply: exchanging of opinions and presentation by group work

**Lesson 19: Example 3 About the application of ICT to Agriculture
(Lecture/Discussion, 90min)**

1. Introduce the example in the tomato production (large-scale example)
2. Explain the ICT system of them
3. Understand the example deeply: exchanging of opinions and presentation by group work

**Lesson 20: Example 3. About the application of ICT to Agriculture
(Lecture/Discussion, 90min)**

Lecture by the special lecturer (Tomato farm)

1. Explain his company profile and business
2. Explain their ICT utilization to make the tomato
3. Understand this example deeply: exchanging of opinions and presentation by group work

**Lesson 21-24: Example 3. About the application of ICT to Agriculture
(Inspection, 360min)**

1. Inspect the setting place of the system of the example
2. Confirm the neighboring situation
3. Make a report about the inspection (homework)

**Lesson 25: Example 3. About the application of ICT to Agriculture
(Group work /Discussion, 90min)**

1. Share your reports by group work
2. Look back of the inspection: exchanging of opinions and presentation by group work

**Lesson 26: Example 3 About the application of ICT to Agriculture
(Group work, 90min)**

1. Discover the problems in this example: exchanging of opinions and presentation by group work

Lesson 27: Example 3. About the application of ICT to Agriculture

(Group work/Discussion, 90min)

1. Make "Tankyu chart" : make the remedy about the problem that you discovered by group work

Lesson 28: Example 3. About the application of ICT to Agriculture

(Presentation/Discussion, 90min)

1. Presentation and exchanging of opinions by group work

Lesson 29: Project Presentation – Full Presentation

(Group work/Discussion, 90min)

1. Make the new group every theme (the concrete ones of the nature disaster and the agriculture)
2. Share your "Tankyu chart" in your group
3. Make the plan ICT utilization plan of your theme in the your countries

Lesson 30: Project Presentation – Full Presentation

(Group work /Discussion, 90min)

1. Presentation and exchanging of opinions