

(2021.04.03 noon)

29 students, 2 coaches, 1 professor

#### Feature

- + **Active learning** 能動的学修
- + **Flipped classroom** 反転授業

#### Requirement

- + **PC** (screen, speaker/headphone, camera, microphone, etc.)
- + **Communication environment** (high-speed, large-capacity, etc.)

#### Procedure of each one lecture of HRI (Human-robot Interaction)

<<1/3>> Pre-learning

<<2/3>> Classwork

<<3/3>> Post-learning

#### Schedule

- [00] 2021/04/06. 00. Course guidance.
- [01] 2021/04/13. 01. Robot and human being.
- [02] 2021/04/20. 02. Recent robots (01) industrial robot.
- [03] 2021/04/27. 03. Recent robots (02) special environment - battlefield.
- [no] 2021/05/04. Holiday.
- [04] 2021/05/11. 04. Recent robots (03) special environment - space/outdoor/rescue.
- [05] 2021/05/18. 05. Recent robots (04) social - public - medical.
- [06] 2021/05/25. 06. Recent robots (05) social - public - welfare.
- [07] 2021/06/01. 07. Recent robots (06) social - public - rehabilitation.
- [08] 2021/06/08. 08. Robot dependability and Human error.
- [09] 2021/06/15. 09. Safety of human-coexistence robot.
- [10] 2021/06/22. 10. Affinity of human-symbiotic robot.
- [11] 2021/06/29. 11. Recent robots (07) social - personal - mobility.
- [12] 2021/07/06. 12. Recent robots (08) social - personal - terminal/interface.
- [13] 2021/07/13. 13. Recent robots (09) humanoid, semi/small/full.
- [14] 2021/07/20. 14. Recent robots (10) humanoid - others.
- [ad] 2021/07/27. Adjustment.

#### Score

- 1) Assignment files
- 2) Supplement files
- 3) Others

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Example in [01] 2021/04/13 (Tue)

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<<1/3>> **Pre-learning**

using Waseda Moodle.

from 12h10, 2021/04/06 (Tue) to 10h40, 2021/04/13 (Tue). -- one week

**(01) Materials 資料**

Students should access PDF and read it watching videos.

**H01-01, H01-11, H01-21, H01-31**

Videos explaining the contents of the PDF.

Students must watch them one by one.

**(01) Assignment 課題**

**(01) Assignment PDF**

The content of the assignment is described in PDF, which you can access after watching videos.

Prepare the submission (report) according to the instructions.

Download the DOC file or TXT file, use them to prepare your submission, and upload it to this location before the lecture time.

Title, given/submitted date, ID number and Family-Given name.

Section structure with heading following the instructions.

[Aim]

1. Find out for yourself. 2. Think by yourself. 3. Express with yourself.

There is no correct answer. There is no perfect answer.

**(01) Discussion 議論**

If you have something to discuss, while pre-learning, classwork, and post-learning, let me know to share and talk with.

It is available until the deadline for submitting **(01) Supplement 補筆**.

[Reason]

You may not be the only one who has a question. Share the discussion.

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<<2/3>> **Classwork**

using Waseda Moodle and Zoom meeting (PC and communication environment are required).

during class hour from 10h40 to 12h10, 2021/04/13 (Tue).

[Attendance]

At the top of the “HRI course” in Waseda Moodle, check your attendance.

**(01) Zoom meeting ズーム会議**

Open Zoom meeting,

Displaying participants name as “ID number, Family name, Given name”

(1) Greeting.

(2) Grouping, breakout room with about five students.

(3) Group work at breakout room, GW-1 (15 min) and GW-2 (15 min), with announcement by representatives.

(4) Closing.

**(01) Collaborative learning 共同学習**

Move to breakout room.

Read the PDF file posted, and start discussions among the students.

[Aim]

Presenter: Devise to convey what you want to inform in a short time.

Learn new things and others’ viewpoint from comments and suggestions.

Audiences: Incorporate the other’s good points into yourself and correct your missing.

Anything on writing, presentation, discussion, and so on.

**(01) Supplement 補筆**

Download the DOC file or TXT file as the Worksheet.  
Title, given/submitted date, ID number and Family-Given name.  
Section structure with heading following the instructions.

0. Group number and group member (ID, name).

1st one must be the **chairperson**.

2nd one must be the **time-keeper**.

1. **GW-1, about submitted assignment** (15 min).

Each member must present (1-2 min) using screen sharing function of zoom to show his/her **assignment file**, and others must take notes on **supplement file** while listening.

Discuss (exchange of opinions) based on each presentation.

(good point, reference point, points to be learned, etc.)

After the breakout session, a representative introduces the result of the group discussion to all.

2. **GW-2, findings and interests** (15 min).

Each member must present (1-2 min) using screen sharing function of zoom to show his/her **prepared materials**, and others must take notes on **supplement file** while listening.

Discuss (exchange of opinions) based on each presentation.

(show what other student understand and explain it, etc.)

After the breakout session, a representative introduces the result of the group discussion to all.

[Aim]

Inform the activities and results of the Group Work during class hours.

Present what you have learned through the group activities and addition study.

**(01) Discussion 議論**

If you have something to discuss, while pre-learning, classwork, and post-learning, let me know to share and talk with.

It is available until the deadline for submitting **(01) Supplement 補筆**.

[Reason]

You may not be the only one who has a question. Share the discussion.

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<<3/3>> **Post-learning**

using Waseda Moodle

from 10h40, 2021/04/13 (Tue) to 10h40, 2021/04/14 (Wed). --- one day

**(01) Supplement 補筆**

Revise and update the DOC file or TXT file.

It might include (1) **supplements and corrections of submitted assignment**, (2) summary of your group discussions in the class, (3) findings through after-class learning, (4) **comments and opinions**, and so on.

[Aim]

Inform the activities and results of the Group Work during class hours.

Present what you have learned through the group activities and addition study.

**(01) Discussion 議論**

If you have something to discuss, while pre-learning, classwork, and post-learning, let me know to share and talk with.

It is available until the deadline for submitting **(01) Supplement 補筆**.

[Reason]

You may not be the only one who has a question. Share the discussion.

<<2/3>> **Classwork**

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during class hour from 10h40 to 12h10, 2021/04/13 (Tue).

**[Attendance]**

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**(01) Zoom meeting** ズーム会議

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Displaying participants name as “ID number, Family name, Given name”

(1) Greeting.

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(3) Group work at breakout room, GW-1 (15 min) and GW-2 (15 min), with announcement by representatives.

(4) Closing.

**(01) Collaborative learning** 共同学習

Move to breakout room.

Read the PDF file posted, and start discussions among the students.

**(01) Supplement** 補筆

Download the DOC file or TXT file as the Worksheet.

Title, given/submitted date, ID number and Family-Given name.

Section structure with heading following the instructions.

**[Aim]**

Inform the activities and results of the Group Work during class hours.

Present what you have learned through the group activities and addition study.

**GW-1**

Topic: **Introduction of my hometown** 故郷の紹介

Write in a file (any format OK) in your PC in 5 min.

Prepare some diagram (chart, figures, pictures, etc.) if possible.

+ Birth place / Where I grew up

+ Location 場所

+ Geographical feature 地形

+ Climate 気候

+ Special product 特産物

+ Scenic spot 景勝地

+Traditional event 伝統行事

+ Custom 風習

05 min.

11h16-11h21 Prepare contents to present/discuss

If you have some time, please add some pictures to explain.

15 min.

11h24-11h39 Introduce your hometown

Sharing your screen by using zoom function.

0. Group number and group member (ID, name).

1st one must be the **chairperson**.

2nd one must be the **time-keeper**.

1. **GW-1, Introduction of my hometown** (15 min).

Each member must present (1-2 min) using screen sharing function in zoom to show his/her **prepared file**, and others must take notes on **supplement file** while

listening.

Discuss (exchange of opinions) based on all presentations.

(good point, reference point, points to be learned, etc.)

After the breakout session, a representative introduces the result of the group discussion to all.

## GW-2

Topic: **Introduction of your graduation project** 卒業プロジェクト

Write in a file (any format OK) in your PC in 5 min.

Prepare some diagram (chart, figures, pictures, etc.) if possible.

+ Field / Target 分野・対象

+ Subject / Problem 問題・課題

+ Approach / Method 手段・方法

+ Implementation 実装

+ Result 結果

### 2. GW-2, Introduction of your graduation project (15 min).

Each member must present (1-2 min) using screen sharing function in zoom to show his/her **prepared materials**, and others must take notes on **supplement file** while listening.

Discuss (exchange of opinions) based on all presentations.

(show what other student understand and explain it, etc.)

After the breakout session, a representative introduces the result of the group discussion to all.

### (00) Discussion 議論

If you have something to discuss, while pre-learning, classwork, and post-learning, let me know to share and talk with.

It is available until the deadline for submitting (00) **Supplement** 補筆.

[Reason]

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### <<3/3>> Post-learning

using Waseda Moodle

from 10h40, 2021/04/06 (Tue) to 10h40, 2021/04/07 (Wed). --- one day

### (00) Supplement 補筆

Revise and update the DOC file or TXT file.

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[Aim]

Inform the activities and results of the Group Work during class hours.

Present what you have learned through the group activities and addition study.

### (00) Discussion 議論

If you have something to discuss, while pre-learning, classwork, and post-learning, let me know to share and talk with.

It is available until the deadline for submitting (00) **Supplement** 補筆.

[Reason]

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