

Guidance of Introduction to OOA OOD and UML

1. Introduction

This course gives basic concepts for designing software in the object-oriented approach. Class, instance, and the inheritance will be introduced as components of modeling for analyzing the real-world targets and designing the software. UML is also introduced as a method to describe the modeled targets and software. Practical software (free UML Editor, Astah UML) to design different types of UML diagrams will be used during the whole course.

2. Instructor

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Please call me “Dr. Yan” or “Yan sensei”

3. Basic policy for class implementation

Classes will be conducted as shown in Table 1 in accordance with the BCP (Business Continuity Plan)¹ level of Ritsumeikan University.

As of March 31st, the BCP level is 2. Both face-to-face classes and online classes will be held to accommodate future changes in the BCP level.

Table 1. BCP level and Class implementation format

| BCP level | Class formats |
|-----------|------------------------------|
| 0, 1, 2 | Regular face-to-face classes |
| 3, 4 | Online classes |

4. Class schedule

Table 2. shows the class schedule and the class implantation format. If the BCP level is changed or the schedule is changed, the necessary information will be notified in “Course New” of Manaba +R. **Thus, please frequently check our course page on Manaba +R and enable “reminders” to our course so that you won’t miss any important course information.**

Table 2. Class schedule and Class implementation format

| Week | Date | The contents of “Introduction to OOA OOD and UML” | Method |
|------|-------|---|--------------|
| 1 | 04/07 | Course Overview | Face-to-face |
| 2 | 04/14 | Objects | Face-to-face |
| 3 | 04/21 | Classes | Face-to-face |
| 4 | 04/28 | Inheritance | Face-to-face |

¹ <http://en.ritsumei.ac.jp/file.jsp?id=459354&if=.pdf>

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|----|-------|--------------------------------------|--------------|
| 5 | 05/12 | Type Systems | Face-to-face |
| 6 | 05/19 | Review (1) | Face-to-face |
| 7 | 05/26 | In-class Mid-Term Test | Face-to-face |
| 8 | 06/02 | Software Development Methodologies | Face-to-face |
| 9 | 06/09 | Gathering Requirements | Face-to-face |
| 10 | 06/16 | Analyzing the Problem | Face-to-face |
| 11 | 06/23 | Designing the System Architecture | Face-to-face |
| 12 | 06/30 | Designing the Subsystems | Face-to-face |
| 13 | 07/07 | Specifying the Interfaces of Classes | Face-to-face |
| 14 | 07/14 | Testing | Face-to-face |
| 15 | 07/21 | Review (2) | Face-to-face |

5. Face to face classes

In principle, students take classes in the classroom. The following items must be observed in the classroom.

- ① Be sure to wear a face mask.
- ② Do not sleep during the class.
- ③ Do not use cell phone during the class.
- ④ Do not make noises during the class.
- ⑤ Do not eat during the class.

Face to face classes will be conducted as follows:

- ① The teaching materials (including PowerPoint Slides, sample programs, etc.) will be published on the “Resources” page of the “Introduction to OOA OOD and UML” course of Manaba+R by **Thursday, 10:30 (The class will start at 10:40).**
- ② Each class will be ideally divided into two sections (70 minutes teaching and 20 minutes Q & A and Exercise). However, the Q & A and Exercise section might be omitted depending on the time.
- ③ During lecturing, I will sometimes interact with students, for example, ask students small questions. Students should interact with me through a **Slack channel** in real-time.

Students can use Zoom to attend the face-to-face classes by requesting “special consideration in classes” due to any of the following reasons:

- ① The student at high risk of severe illness if infected such as having a pre-existing condition or chronic disease.
- ② The student has family members residing with the students, who at high risk of severe illness if infected such as having a pre-existing condition or chronic disease.
- ③ The student is not allowed to enter/return to Japan due to overseas travel restrictions; and if you/your family members have an underlying condition defined by the government, such as respiratory disease, diabetes or heart failure.

Normally, students who want to attend a face-to-face class via Zoom need to make an offer to the instructor (Yu Yan) **at least 3 days in advance** along with the reason. If the reason is valid, you will be given a Passcode. In case of emergency, please contact the instructor (Yu Yan) as soon as possible. In this case, the validity of the reason will be judged after the class.

6. Online classes

Once the BPC level is lifted up to 3 or higher, a Zoom meeting for all students will be provided. In this case, the Zoom link will be announced in the “Course News” of our course page on Manaba +R.

7. How to ask questions and get answers

- ① You can ask questions during the Q&A session of each lecture.
- ② You can send email with the questions to the instructor (Yu Yan). Please do not use “Threads” to send questions. The organized questions and their answers will be posted on “Threads” of our course page in Manaba+R. In this way, appropriate information can be transmitted to everyone.

8. Quizzes, Exercises and Examinations

There will be one in-class mid-term exam and some exercises as after-class homework. You must complete them with at least an average score of 60% to get credits for this class. In addition, everybody must join the mid-term exam.

The tasks and requirements for the exercises will be given at the end of each class. Please submit your assignments via Manaba +R. The submission deadline for each assignment will be **09:00, the following Thursday. The assignments submitted by email or late submission assignments will not be evaluated** unless the cause of the failure to submit via Manaba +R can be verified, for example, showing documents with proof that include date and time, etc.

9. Prohibited Matters

All actions related the sharing of your assignments are strictly prohibited and considered cheating. **Both the person who provided (showed) the answers and the person who obtained (viewed) it, are subjects to a failing grade (“F”).**

10. Attendance

To acquire credits, students must attend more than 2/3 of the classes from April 12th to July 21th. The attendance policy is as follows:

- ① Late arrival (or leaving early) by less than 10 minutes will be regarded as a half day absence.
- ② Late arrival (or leaving early) by 10 minutes or more will be regarded as a full day absence.

For students who join Zoom classes:

- ① you have to stay in the Zoom room (or link) during the entire class hours. I am able to get your entrance and exit records by Zoom.
- ② The attendance policy follows above attendance policy.

We will use “Attendance card” on Manaba +R to record students’ attendance during class hours. There are several ways that you can use to do the attendance procedure:

- ① If you prefer to use a laptop, you can: 1. Open our course page on Manaba +R; 2. Find “Attendance Card” button on the top of the page; 3. Click the button and enter the “Call Number” to report your attendance.
- ② If you prefer to use smartphone, you can use your smartphone to scan the following “QR” code to visit the interface to report your attendance.



- ③ You can also directly access the following URL to visit the interface to report your attendance
<https://ctat.ritsumei.ac.jp>

When you report your attendance, please note the following issues:

- ① Do not check “Submit anonymously”
- ② For each face-to-face class, “Call Number” will be published at the beginning of the class. Please report your attendance in the first 10 minutes since the class begins. **(There will be a record about the time your report your attendance. If the submission time is later than 10 minutes after the class starts, you will be regarded as “late arrival”).**
- ③ The students who take the face-to-face class via Zoom do not need to report your attendance until you are able to come to the classroom. (Zoom has the function automatically record the time when you are in the Zoom room).
- ④ **Do not share the “Call Number” with others including your classmates! The “Attendance card” is not the only way that I use to take your attendance. I sometimes randomly take your attendance by calling your name.**

11. Comprehensive Evaluation

- ① The maximum score for each task in each exercise is 4 points.
- ② If you don't join the mid-term exam, you will automatically get a maximal “C” in your final grade.
- ③ The total number of points for evaluations of exercises, attendance and the exam is converted to 100 points, out of which the final grade is decided.