

Pre-announcement of Exercises on Team Management (ETM) in Robotics Synthesis & Management (RSM)

I am Dr. Doosub J. Jahng from the Department of Human Intelligence System (HIS). I am one of the professors in RSM, which will be newly established in April 2021. ETM, which is offered through RSM, will be led by three professors and is scheduled to begin in the third quarter of this academic year.

As the representative of the teaching team, I am writing this pre-announcement for students who are interested in enrolling in ETM. I am also announcing the start date now because ETM requires students to complete pre-learning materials.

The focus of ETM will be on “Human and Society.” Presently, our relationship with robots is transitioning from coexistence to commensalism. In the future, further improvements may lead to a symbiotic relationship. At the moment, human beings are the ones who are planning, creating, distributing, purchasing, and using robots in the human society. ETM is designed with the idea that we need to understand who we are and where we are in preparation for the future era of symbiosis.

I greatly welcome students who agree with this basic concept of ETM.

ETM will utilize different ways of thinking and proceeding.

Please read the following statements carefully and keep them in mind before deciding to enroll in ETM.

- 1) ETM will begin in the third quarter. The early announcement of ETM in the first quarter is to accommodate for the pre-learning period that is required for enrollment.
- 2) The official language used will be Japanese because ETM is premised on activities in the local community. International students need to show that they are at or above N2 in JLPT or at a similar level.
- 3) ETM requires many activities outside of class hours (both before and after). Please keep this in mind and consider the balance with your own studies and activities.
- 4) ETM will use a multi to multi educational system, that is, an education method between several teachers and student teams. Students are expected to be highly aware of team building, performing, and evaluating while practicing team learning methodology.

Regarding statement 1)

Please complete the pre-learning by listening to the Journey of Discoveries (Kizuki No Tabi in Japanese) #1~12 from the YouTube channel, “DJ Tayori.” Students are asked to reflect on the materials and learn on their own. The pre-learning will help prepare students by providing keywords that will be explored during the ETM activities.

I encourage and recommend students to refer to the internet, books, magazines, and other resources (do not necessarily have to be scientific references) to learn more about the keywords from the pre-learning materials.

Before enrolling in ETM, please form a team comprised of members who are close in distance, field, and ideology, and decide on the team’s name and team leader. When

assembling a team, team leaders can recruit people who are not enrolled in ETM as “supporters.” However, supporters will not be able to attend the ETM classes. For a smooth course execution, I am thinking of making the maximum number of teams to 4 (each team having 4 to 5 members). If there is a low number of enrolled students, I will still open ETM as long as there are 3 students (each team having 1 enrolled student as the leader + “supporters” for a total of 3 teams).

First Stage: Confirmation and Discussion of Pre-Learning Materials

(Classes 1~4)

During the first class, I will ask questions to check each of the students preparation and understanding of pre-learning materials. Depending on the responses, I may recommend some students to cancel and enroll in ETM at the next opportunity.

During the first stage, we will have an online discussion about the pre-learning content and themes through Zoom. I will participate as a facilitator and commentator. I may advance to the second stage based on how well the students have prepared through the pre-learning.

Second Stage: Proposal Preparation and Midterm Presentation

(Classes 5~9, number of classes subject to change depending on the number of teams)

Each team will prepare a proposal on the theme of revitalization of local communities and robotics, and complete the preparation before the midterm presentations in class 9. The presentations will be evaluated based on the feasibility and accountability of the proposal. In the context of local communities, health, education, and environmental business are thought to be promising fields.

If needed, teaching team will provide additional consultations outside of class hours (please don't forget to schedule an appointment beforehand).

Class 9: Midterm presentation. Activity journals from each team are due.

Third Stage: Round-Robin Tournament

(Classes 10~13, number of classes subject to change depending on the number of teams)

A round-robin tournament between all teams will be held and the winning team's proposal will be selected for final presentation. The teaching team will be judges and provide advice after each presentation. Each team can improve the proposal based on the advices received. Presentations will be evaluated based on the feasibility and accountability of the proposals and activity journals.

If needed, teaching team will provide additional consultations outside of class hours (please don't forget to schedule an appointment beforehand).

Everyone, except for the presenting team members, will get one vote during the round-robin tournament. The team with the highest number of wins, or in the case of a tie, with the highest number of votes, will be selected as the winning team.

The proposal of the winning team will be used to prepare for the final presentation by all the students as one team. Final presentation preparation must be completed by class 14.

Final Stage:

Final Presentation Rehearsal

(Class 14)

The teaching team will provide advice and techniques related to presentation skills and the final presentation (eye contact, speed of speaking, use of gestures, slide designs, etc.).

Final Presentation

(Class 15)

Public announcement of the final presentation will be made. I am thinking of inviting fund managers, business loan officers, and government officers. The amount of time for the presentation will be 40 minutes. This will be followed by 30 minutes of Q&A session with the invited guests. The next 20 minutes will be a Q&A session for the public attendees.

After the successful completion of ETM, students who wish to start a business using their proposal will receive support from the teaching team and experts, if requested.