Do you know the way of Doshisha international exchange in science? ~To future students of Science and Engineering~

Learn science and engineering in a foreign language and in a foreign country to connect with the world

-Step up to study abroad! —

Yuma Kuroda Miyu Teramoto Masaki Nishida Leona Hirai Masaki Mizue Tomoki Kitagawa Shoji Oikawa Krueger Mischa Aleksej Sora Sakamoto Alansari Shoug

Purpose

Increase the number of students

- who wish to enter our Faculty
- · who participate in various programs after enrolling

By convey and want participants realize the fun of

- science and engineering
- studying abroad in different cultures



Hold information sessions

 to convey the characteristics and appeal our international exchange program

AES, Language Lesson, DD/ND study abroad Laboratory, Co-Learning program

to the students in Doshisha related high schools

Interactive information session

"What should I do to become a globally-minded person?"

Group discussion Small experiments





Quiz







Groups







Negotiation with High School

AES & Labs

DD & Language Lesson

Negotiation with High School

Leona Hirai Alansari Shouq Yuma Kuroda

Group Mission



Doshisha Junior and Senior High School Doshisha Kori Junior · Senior High School Doshisha Girls' Junior and Senior High school Doshisha International Junior / Senior High School

- Contact with four Doshisha related high schools
- Tell schools our vision
- Gather participants

Plan

- Contact Doshisha International Junior / Senior High School through graduate in our project
- Contact other three schools through Prof.Matsukawa

Doshisha International High School

1. October 23rd

⇒ Members: Hirai, Kuroda, Alansari

⇒ Teachers: Mr. Nishida (Vice-Principal)

Ms. Nozaki (Director of School Affairs Department)

2. December 4th

⇒ Members: Hirai, Kuroda

⇒ Teacher: Ms. Nozaki

Targeted Students

The second year of senior high school students

Need explain about the "Faculty of Science and Engineering"

Venue

Kyotanabe Campus @Doshisha University

⇒ Easy to imagine campus life for students

Online

⇒ Case of regulation by COVID-19

Schedule

Kyotanabe Campus @Doshisha University

⇒ February 20th, 2021 13:00-16:00



Online ⇒ Planned to hold the sessions between March 13th and March 30th of 2021.

Influence by COVID-19

COVID-19 situation -> Bad January

Doshisha International Junior / Senior High School Online -> ×

We contacted the following three schools by email through Prof. Matsukawa.

Doshisha Junior and Senior High School Impossible to conduct Doshisha Kori Junior · Senior High School in AY2020 Doshisha Girls' Junior and Senior High school

Academic English for Science & Laboratory

Masaki Nishida Tomoki Kitagawa Shoji Oikawa Leona Hirai Krueger Mischa Aleksej

Group Mission

- Provide information about AES.
- Convey importance of learning scientific English to participants
- Encourage students to join after enrolling Doshisha.

Plan

- Present exciting and interesting contents from the AES course (Academic English for Science)
 - Specifically, by conducting little experiments like in those classes.
- Organize laboratory visits, so students get a real and fascinating insight into a student's research environment.

Plan

- AES
 - · Conduct a quiz for the high school students.
 - · As a reference, we have data from the scientific girl's project.
 - Focused on English and experiment & scientific related expressions.
 - Students do experiments from the AES class in a workshop.
 - · We will use extracts out of the official AES book.
- · Laboratory visits
 - Decide what professor to interview and what laboratory to choose.

Workshop to learn about AES experiments

Thursday, January 14 Attendants: Hirai, Nishida

Teacher: Prof. Romero

Compare the erasing performance of multiple erasers

· Test the strength of spaghetti



Results

Made two manuals for high school students

 Compare the erasing performance of multiple erasers

Test the strength of spaghetti



Can convey importance of learning scientific English

Spaghetti Bridge Experiment

スパゲッティで橋を作り、その強度について調べる

of this experiment is to investigate the relationship between <a href="mailto:supported length of the spaghetti bridge and the strength of the lbridge: How does changing the unsupported length of a spaghetti bridge strength of the spaghetti bridges?

You will use weights to measure the strength of the bridge, pla that is hanging on the spaghetti bridge until the bridge breaks Write your hypothesis for this experiment below:

パ (もしも~ならば:仮定を書く)

Then $(\sim$ になるだろう:will を使う、if のことが起こった時の予想される結果を書く)



Eraser Experiment

どの消しゴムがよく消える?

The purpuse of this experiment is the following:

To use "eraser" which is very familiar thing as an experiment tool, for the students

to discover and learn the factors which may affect the result. To know which type of eraser performs best.

0 3. Plus Double

You will use the following materials:

· a pencil sharpener ·different six erasers: Tombow Mono, Tombow Mono Light Touch, Arch Kokuyo Plastic Eraser Black, Pentel Hi-Polymer Ain, Plus Double Air-In

· a grading sheet (this sheet)

Double Degree & Language Lesson

> Miyu Teramoto Yuma Kuroda Masaki Mizue Sora Sakamoto Alansari Shouq

Group Mission

- To provide information about DD and Language Lesson.
- Encourage the students to join after enrolling at Doshisha Univ.
- Not just give students information, but also let students to think about their future.

Plan

- Conduct interview about DD and Language Lesson
- · Organize information
- Provide in the form of quizzes

Results

Conduct interview from December to January

->Three DD experienced students

Mr.Murao Masashi Electrical and Electronic Engineering went to EC Lille
Ms.Sujishi Mikako Applied Chemistry went to ENSCL
Mr.Hashimoto Shunsuke Electrical and Electronic Engineering went to EC Nantes

->A pair of Language Lesson student and teacher

Ms.Kanenaka Akane plan to go to ENSCL

Ms. Piet Maurine Solene Cecilia from ENSCL

Results

Example of questions

- Why did you decide to go study abroad?
- How and when did you start preparing for studying abroad?
- What did you learn in your study abroad program?
- · What was life in study abroad like?

The entire interview was transcribed.

- · Lots of experience including preparation
- · Can have image about DD

situation would be somewhat better. but the situation with COVID-19 has worsened.

⇒ should have made at least two plans (for good and bad)

Reflections

Many discussions in project were held online but it was unclear whether members could communicate sufficiently

⇒aware the difficulty of online communication

Planned a program interactive

Made plans based on the idea

⇒could think with imagination and flexibility ●

Summary **Outcomes**

Spaghetti Bridge Experiment

スパゲッティで橋を作り、その強度について調べる

ししも~ならば:仮定を書く)

 We could not hold a workshop for high school students, however...

- We made
 - 2 experimental manuals
 - 5 transcription by interview

We hope to use our outcomes for

- Increase students enrolling at Doshisha Univ.
- Encourage the students to join programs
- ► Hold information sessions ¬
- ➤ Create a pamphlet

テストも英語。英語。もちろんもち 日本に帰ってきてから生活に変化はありまし それは結構変わって、何だろう、俺! の学生団体で日本の田園風景を守る それのきっかけになったのはフラ: 業って今日本に住んでると廃れてい や、ってあったのよ。個人的には。 給率下がったって、俺ら困らんやん

一次産業って国の根幹を担う産業で





