

Form B-2  
(FY2022)  
Must be typed

Date (日付)  
14/06/2022 (Date/Month/Year: 日/月/年)

**Activity Report -Science Dialogue Program-**  
(サイエンス・ダイアログ事業 実施報告書)

- Fellow's name (講師氏名) : Enrique Ruiz Zuniga  
(ID No. P21757)

- Name and title of the lecture assistant (講義補助者の職・氏名)  
Yasue Naruki, doctoral student Kyoto University, Graduate School of Engineering.

- Participating school (学校名): Fukui Prefectural Koshi Senior High School

- Date (実施日時) : 11/06/2022  
(Date/Month/Year: 日/月/年)

- Lecture title (講義題目):  
Simulation projects in industry and healthcare

- Lecture format (講義形式):  
◆  Onsite ・  Online (Please choose one.)( 対面 ・  オンライン(どちらか選択ください。))  
◆ Lecture time (講義時間) 90 min (分), Q&A time (質疑応答時間) 30 min (分)  
◆ Lecture style (ex.: used projector, conducted experiments)  
(講義方法 (例: プロジェクター使用による講義、実験・実習の有無など))  
Projector and group questions and discussion

- Lecture summary (講義概要): Please summarize your lecture within 200-500 words.  
Lecture structure: Introduction of presenters, introduction to home country. Introduction to university studies, science, research, and engineering. Main topic explanation with example videos of applied research: Engineering and simulation: how to improve systems, factories, and services. Open questions and group discussions during and after the lecture for student interaction.  
Main lecture part: Simulation is an analytical software tool to create a virtual copy of a system (a system can be a factory, hospital, shop, restaurant...). With simulation we can help managers and workers of factories, hospitals, shops, restaurants... to take decisions about improving their jobs (making them easier, safer, or quicker). A simulation model is a virtual representation of the system in a computer. In this virtual copy different scenarios or "what-if scenarios" can be tested without interrupting the real system. For example, "what-if" an extra robot is added to this factory producing cars? Or "what-if" 2 doctors and 1 nurse are added to this hospital on Monday mornings?

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(Is the waiting time of the patients reduced? Or the quality of the treatment increased?). Then the results can be analyzed in the computer and give important information that can be useful for the managers or people working and using the system.

◆Other noteworthy information (その他特筆すべき事項):

Great support from the school teachers and pick up by car from train station.

- Impressions and comments from the lecture assistant (講義補助者の方から、本事業に対する意見・感想等がありましたら、お願いいたします。):

Good attention and interest from the students in the research topic and in studying at university level abroad. It seems the students did not know much about possible university studies and internationalization possibilities.