

Form B-2  
(FY2021)  
Must be typed

Date (日付)

19/07/2021

(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): Zeinab Aliabadian (ID No. JSPS103375)

- Name and title of the accompanying person (講義補助者の職・氏名)

Dr

- Participating school (学校名): Ikeda High School

- Date (実施日時): 13/07/2021

(Date/Month/Year: 日/月/年)

- Lecture title (講義題目):

Rock Mechanics

- 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) 60 min (分), Q&A time (質疑応答時間)      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))

used projector

- Lecture summary (講義概要): Please summarize your lecture within 200-500 words.

Firstly I introduced myself and my origin country (location, history, monuments, food, souvenir, old famous scientists and today technologies) and also about my PhD country ( the location, famous buildings and adventure locations), next I talked about my universities ( their ranks).

Then I introduced the topic step by step for the students and I explained its application in the today life and in different aspects. As below:

What is rock? In geology aspect, a rock is naturally occurring during million years from one or more minerals in different formation conditions. Rocks get involved in the mankind life from the past to here, for example for tools in the stone age to broadly use in different aspects of industry and civil projects. A lot of structures build in or on rocks that rocks behave differently under various load conditions, so it needs to carefully study. Therefore, rock mechanics is introduced to scientists and engineers who are responsible for leading and completing important engineering projects such as engineering geology, mining, petroleum, and civil engineering practice. Rock mechanics applies the principles of engineering mechanics to design rock structures generated

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by mining, drilling, reservoir production, or civil construction activity to deal with control of rock deformation and fracture processes. In fact, rock mechanics determines how a particular rock reacts during its lifetime under different conditions such as at various earth dept, earthquake, existing defects and joints and so on. Also, rock mechanics helps engineers to protect slopes, tunnels and many rock projects to increase the structure life age and decrease cost.

Finally, I explained about my study in a simple way and its application. I showed some interesting results to better undersatnding.

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

I tried to use simple language for best understanding rather than professional words, also I displayed some videos related to the topic to make sense better.

- Impressions and commnets from the accompanying person (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。):

He was happy to help me, and I really appreciate him.