

Form B-2
(FY2023)
Must be typed

Date (日付)
19/12/2023 (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) Mohammad Abdul KADER (ID No. P22392)

- Name and title of the accompanying person (講義補助者の職・氏名)
Mikiya Tabuchi, Undergraduate student, Kyoto University, Japan

- Participating school (学校名): Meiwa Senior High School, Aichi Prefecture

- Date (実施日時) 18/12/2023 (Date/Month/Year: 日/月/年)

- Lecture title (講義題目):
Enhancing Water Productivity through Soil Management

- 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) 100 min (分), Q&A time (質疑応答時間) 25 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))

Power point presentation, used laptop, projector and pointer

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

Water scarcity poses a significant challenge to global agriculture. Improving water use efficiency is crucial for sustainable agricultural practices and ensuring food security. This lecture delves into the role of soil environment modifications in enhancing agricultural water use efficiency. This lecture provides an understanding of how to reduce water use in agricultural field by managing soil environments especially soil moisture and temperature. Understanding the principles of soil moisture movement and the impact of different soil management practices on water retention and availability is delivered to share the knowledge of irrigation management. This lecture focuses the effectiveness of mulching materials in conserving soil moisture, regulating soil temperature, and suppressing weed growth, thereby improving water use efficiency. Moreover, various irrigation techniques and systems to minimize water loss and maximize crop water productivity is discussed. Finally, soil moisture and temperature movement mechanism under different mulch covered surfaces is discussed to enhance water use efficiency and improve crop productivity in agriculture.

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

SD

※弊会記入欄

Share the selfintroduction of myself and discussed the motivation of research conducted in Japan. In addition, provided a short overview of home country (Bangladesh) and its culture and customs. Students are enjoyed the lecture of country overivew, food and festivals. Also, the student learned about water and irrigation management in Bangladesh.

- Impressions and comments 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。):