

The Public Report

Course: International Internship (OA00303)

Title of the Internship: International Research Seminar on Landslide Risk and Management (National Institute of Forest Science, Republic of Korea and University of Tsukuba, Japan, Joint Research Exchange on Landslide Studies).

Student Name and Affiliation: W. A. K. S. Ariyakumara, 3rd year Doctoral Program in Environmental Studies, Graduate School of Science and Technology.

Overview

I had an opportunity to participate in an internship, which is described below.

Objective: To promote international joint research on landslide studies.

Duration: From February 10 (Monday) to February 21 (Friday), 2025

Host Institute: National Institute of Forest Science (NIFoS), Republic of Korea

Participants: Total of 11 participants (National Institute of Forest Science: 9 Participants and University of Tsukuba: 2 Participants)

Key Activities Completed in the Internship

1. Practical Discussions on Advancing International Joint Research

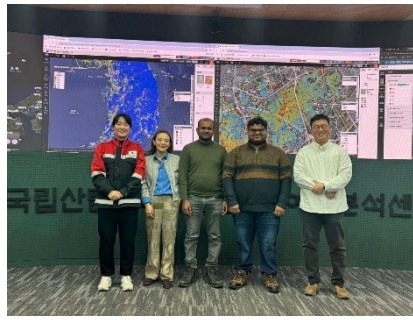
- Discussed research themes, different types of joint research, and the roles and structure of participating research teams.

2. Seminar Presentations and Conference Attendance

- Delivered and attended seminar presentations on relevant research topics.
- Attended the Korean Society of Forest Science Conference

3. Tours and Technical Knowledge Sharing

- Visited comprehensive landslide research laboratories.
- Conducted field inspections at landslide monitoring sites and forest fire-affected areas.
- Visited some institutes related to relevant research themes.



Key Outcomes of the Internship

- Enhanced understanding of structural and non-structural countermeasures used in Korea for landslide mitigation, leading to insights into:
 - Korea's national landslide early warning system, based on the tank model, and its landslide hazard zonation mapping techniques.
 - Landslide monitoring systems, alarming systems, and structural countermeasures such as check dams, observed through field surveys.
 - Practical applications of UAV technology in landslide and forest fire monitoring, which were demonstrated and tested in real field conditions.
- Identified effective landslide risk management practices from Korea that can be further developed and applied in our own countries.
- Broadened knowledge through research seminars and discussions, where we shared and exchanged insights, identified research gaps, and explored potential future collaborations.
- Gained practical knowledge of Korean forest reforestation techniques, understanding how they were used to restore forests degraded during the colonial period and by forest fires.