



National Dong Hwa University Amid the 0403 Strong Earthquake

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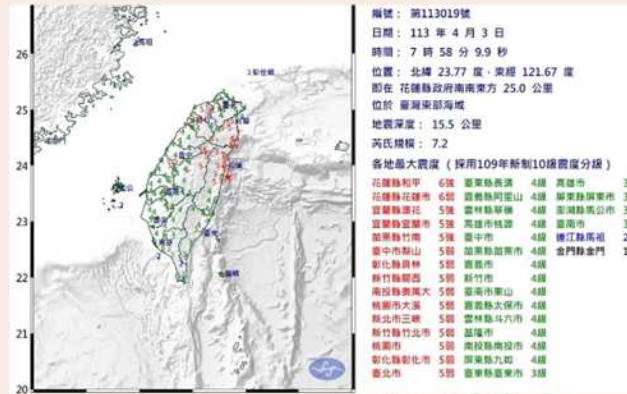


Overview and Impact of the Disaster



The 7.2-magnitude earthquake in Hualien

On **April 3, 2024**, a magnitude 7.2 earthquake struck Hualien, marking the **strongest** quake in Taiwan in the past 25 years.



Epicenter and affected areas

The epicenter was located off the coast of **Shoufeng Township**, Hualien County, at a depth of 15.5 kilometers. Significant shaking was felt across Taiwan and surrounding areas.



The University experienced a compound disaster

The powerful quake caused severe damage to campus buildings. In particular, the College of Science and Engineering I experienced a compound disaster involving a **chemical-related fire**.



Overview of Damages

Severe damage to the College of Science and Technology I

Student dormitories

Structural damage in the College of Science and Technology II

Administration building facilities

Main library

Other buildings

Damage to the Main Library



Top floor steel structure tilted.



Concrete blocks dropped from tower walls.



Bookshelf collapse resulted in extensive book damage.

Emergency Management Team Activated-

Complete commitment to campus restoration



Work and classes suspension announcement

1. The suspension of work and classes was on April 3rd.
2. Online teaching was implemented from April 4-26.

Recovery and support

1. Held presidential briefing sessions to present damage conditions and restoration plan;
2. Set up donation accounts and sought subsidies from the Ministry of Education.

Safe evacuation of faculty and students

Immediately evacuated from severely damaged buildings to eliminate safety concerns.

Space allocation and coordination

Arranged temporary space for staff whose regular office areas are unusable.

Decision to rebuild at a different location

The decision was made within 1 week; Architects were commissioned to conduct several interviews with the Physics and Chemistry departments.

Student accommodation and support

Offered housing for students who stayed on campus, along with temporary utilities, such as electricity, water supply, toilets and other essential facilities.

5 Months of Emergency Repairs- Ensuring continuous school operations



Rapid emergency repair of infrastructure

- Power restoration work for the College of Science and Technology
- Repair of library air conditioning cooling tower
- Elevator repairs for dorms, Innovation and Incubation Center, and Administration Building
- Waste removal

Throughout intensive repairs and resource coordination, operations returned to normal before the start of the academic year in September 2024.

Emergency repair of student dormitories

- Fixed the heat pump systems in dorms, replacing severely damaged ones with electric water heaters
- Prioritized emergency repairs of indoor living spaces, restored water, electricity, and drainage through exposed piping,

Building restoration and earthquake resistance assessment

- Ensured students and faculty have safe accommodation and maintained daily living needs
- Completed detailed earthquake resistance assessment and initial emergency repairs for the College of Science and Technology I

Space reallocation measures

- Space reallocation was planned along with sharing offices and lab facilities with other colleges
- The 1st phase of the Administration Building renovation was using floor-by-floor restoration approach and flexibly converting conference rooms and lecture halls into temporary offices.



Post-Disaster Reconstruction Procurement



Relocation and reconstruction project for the **Building D** of the College of Science and Technology I

Refurbishment of the College of Science and Technology II and the **Main Library**

Reconstruction of the **air conditioning** system, including EMS, in the **Administration Building**

Dormitory renovation

Campus-wide **elevator repair and replacement** for disaster damage

Repair, debris removal, furniture procurement, and post-disaster recovery and response measures for the following 30 buildings

Renovation of the College of Science and Technology I and its **D Building** demolition

The Administration Building restoration project

Procurement of instruments and Equipment for the **College of Science and Technology**



Thank you for listening.