

EXTENSION OF THE GERMAN MONGOLIAN INSTITUTE FOR RESOURCES AND TECHNOLOGY (GMIT) EXTENSION OF THE NALAIKH CAMPUS

BACKGROUND

The Mongolian national strategy for implementing the Sustainable Development Goals launched in 2016 includes the objective to develop internationally competitive university education. Since 2012, the Mongolian Government has initiated academic and institutional reforms to design more practical teaching, research and corporate cooperation to close the gap between employers' needs and graduates' skills sets.

The German – Mongolian Institute for Resources and Technology (GMIT) responds to these reforms and to the demand for highly qualified engineers in the Mongolian natural resources sector and in downstream industries. It transfers scientific international expertise and modern academic standards to Mongolia. The GMIT, established with German support, aims to provide internationally oriented and quality-focused higher education and research in the fields of engineering and technology, particularly targeting the commodity sector.

The project, which is financed by KfW with a concessional loan of up to 7.0 million EUR, comprises the construction and upgrading of educational buildings, including laboratories and libraries, to support GMIT's expansion. This involves not only providing additional infrastructure to accommodate an increasing number of students but also enhancing the quality of education and research facilities. The project focusses on:

- The extension of the GMIT campus by constructing an additional instructional building, including a library
- Key installations of lab-equipment
- Maintenance and the provision of Training

The project enhances GMIT campus facilities to boost the university's ability to provide market-relevant education and research, aiming to produce high-quality specialists and managers for sustainable, inclusive, and resource- driven economic growth in Mongolia.

OBJECTIVE

The extended and upgraded GMIT instructional building and library provide the infrastructure capacities for market-oriented professional engineering education and applied research to contribute to the fulfilment of the University Development Plan towards becoming a research oriented university until 2025. This is to contribute to the overall objective of the German Mongolian sector approach which is to improve the institutional, economic and personnel conditions for a sustainable and broad impact, resource based economic growth, including the Mongolian, German and international private sector.

The Extension of the GMIT at the Nalaikh Campus is implemented in close cooperation and partially co-financed by the GMIT IV project implemented by German Technical Cooperation (GIZ), which aims to enhance GMIT's institutional and financial capacities.

Commissioned by	German Federal Ministry of Economic Cooperation and Development (BMZ)
Project area	GMIT campus in Nalaikh / Ulaanbaatar
Lead executing agency	Ministry of Education, Culture Science and Sports (MECSS)
Duration	07/2019 - 12/2024
Financial Contribution	7 million EURO



NEW LABORATORY BUILDING

The project involves developing a multifunctional three-story instructional building with laboratories and additional educational areas. The aim is to create a modern learning environment that meets the institute's growing and evolving educational needs. The design of the building is meant to complement the existing main and dormitory buildings, maintaining a consistent aesthetic across the campus. It has a footprint of 1,736 square meters and is connected to the existing main building via a second-floor corridor. The extension allows for implementation of practical education in modern and adequate facilities, meeting state-of-the-art standards for design, technology, energy efficiency and occupational health and safety.



TECHNICAL AND TRAINING EQUIPMENT

The project emphasizes the careful selection, procurement and installation of technical and educational equipment. This includes key installations of lab equipment essential for supporting advanced technical education and research initiatives.



ADVANCED TRAINING PROGRAM FOR STAFF

To maximize the benefits of the new facilities and equipment, an advanced training program will be implemented for GMIT staff. This training ensures that the staff can effectively use and maintain the new technologies, thereby enhancing the institute's educational capabilities and sustaining facility management over the long term.



ARCHITECTURAL CONCEPT

Laboratories: The new building houses various specialized laboratory spaces for machining, CAD/CAM measurements, welding, materials, automation (mechatronics), process engineering, environmental studies, physics, and chemistry.

Library Facility: The library provides a reference book section and a quiet area for individual study, supporting students' learning and research needs.

Seminar Rooms: Seminar rooms are designed to be multi-functional to both seminars and group learning activities. Each room can accommodate up to 30 students.

Lecture Halls: Two lecture halls, with a capacity of approximately 130 students each, can be combined into a single hall for larger events. These halls have acoustic movable partitions to provide a soundproof environment.

Cafeteria: The building includes a cafeteria space, for serving coffee and snacks, managed by the student association. A small separate meeting room is attached.



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