

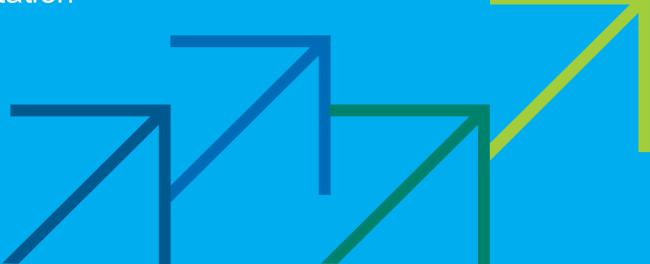






Roadmap to Establish the Egypt Transportation University - A Korea-Egypt Rail Partnership

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History of KNUT



1905

Start of History



1905.05Opened Iwon Railroad Training School.

1967

1999

Cradle of the University



1967.03 Changed to Railroad High School.

1999.03

Changed to Korea National Railroad College.

2012

Start of the Integration

2012.03

Integrated Chungju University and Korea National Railroad College.

2012.03

Launched as Korea National University of Transportation.

2020.09

Selected as a university subject to The Leaders in Industry-University Cooperation Project



2023

Together, for a Better Future!



2023.04Inauguration of the 8th
President Yoon Seung-Jo.

2023.06

Short-listed in preliminary university list for the Glocal University 30 Projects.

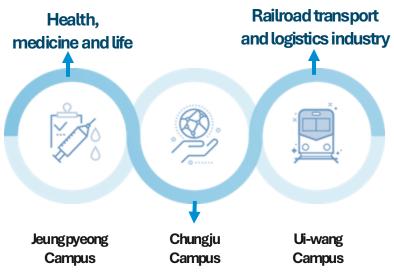


Academic Architecture

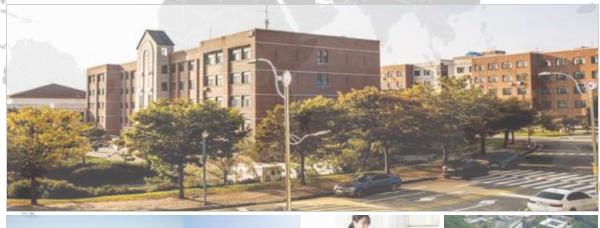


KGID

Build-up of a 3 multi-campus, a specialized cluster by region.



Smart vehicle & aviation Next-generation energy, parts material & IT technology Social infrastructure, construction & environment Humanities, sports & arts













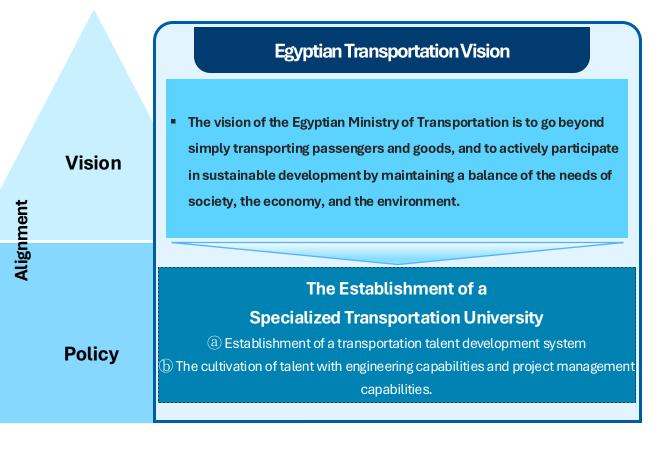


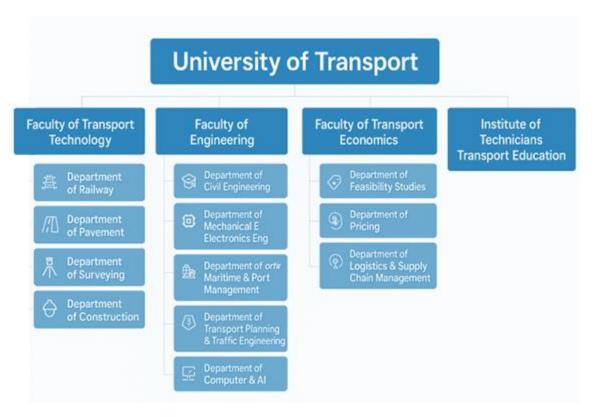






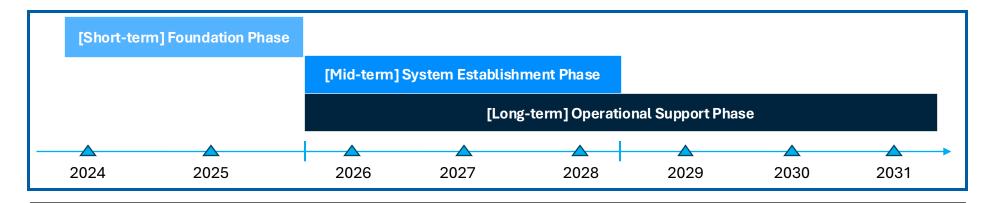
Initiative for the Establishment of Egypt Transportation University (ETU)







Roadmap to Establish the Egypt Transportation University



[Short-term] Foundation Phase

[Mid-term] System Establishment Phase

[Long-term] Operational Support Phase

- Design the academic structure and education programs (including training for officials, practitioners, and educators in the transport sector)
- Conduct Short-term training courses (including school training and related institution tours)
- Support the development of the PCP (for ODA project preparation)
- Support the establishment of educational programs and the construction of educational operation systems (faculty, education system, facilities and equipment, etc.).
- Implement ODA project after PCP approval (facilities and equipment, and human resource training)
- Design joint degree and student exchange programs with Korean universities

- Support the establishment and operation of a specialized transportation university in Egypt
- Support the design of necessary personnel and resources according to the roadmap
- Ensure sustainable operation through faculty dispatch and performance evaluation



Key Achievements & Milestones



2023

July

KNUT-MOT-WB online seminar launching cooperation for ETU (KGGTF-facilitated)



October

KGID 2023 Cairo; MoU signed with MOT on ETU collaboration



2024

Transport University Study

January

University Strategy Report submitted (WB-supported)



February

Egyptian delegation hosted in Korea for railway tech tour



September

Visited Egypt's MOT on key ETU establishment issues



2025

July

Korea Maritime and Ocean University faculty join to design maritime programs

September

Launched a World Bank– supported assignment to develop curriculum options

October

Korea–Egypt Expert Working Group convened



Spreading K-Global Railway Education Model

Necessity

KNUT turns Korea's higher-education changes into global opportunities
—advancing transport capacity, partnership, and multicultural learning.

Adapting to Higher Education Changes



- Korea's demographic shifts drive universities toward global engagement.
- KNUT transforms this change into mutual growth through international education.

Supporting Partner Countries



- Many developing nations need experts to modernize transport systems.
- KNUT shares Korea's transport education model to help build local capacity.

Expanding Korea's Global Role



 Through knowledge sharing and human-resource development, Korean universities foster inclusive and sustainable growth with partner countries.

Fostering Multicultural Learning



- International students create diverse, cross-cultural innovation.
- KNUT envisions a global network campus through joint degrees and exchanges.

Departmental Infrastructure

KNUT's College of Railway has departments covering all areas of the railway field.

Railway College

Vehicle System, Infrastructure, Electrical & Information, AI & Data, Logistics

Graduate School of Transportation

Transportation Policy, Transportation Systems, SMART Railway



Introduction to K-Transportation International Education Center by KNUT

Background of the Center's Establishment

- KNUT, Korea's only transportation-specialized university with over 120 years of railway training history,
 established the K-Transportation International Education Center in May 2024 to boost global cooperation
 and internationalization
- The center acts as a hub for international exchange, expanding transportation education abroad and supporting joint research initiatives

Main Activities of the Center

- Identifying K-Transportation partner universities to meet diverse global needs
- Developing & managing specialized education modules and certification systems
- Education modules, certification systems, joint degree programs
- Student exchange and visiting researcher programs
- Supporting project development by linking with WB, KOICA, NRF, etc. for EDCF/ODA
- Promoting international education and joint research in overseas transport sectors



Other International Projects in Progress

Kazakhstan International Cooperation Program Development

MOU & Strategic Collaboration

- 2023: MOU signed between KNUT and ALT (Academy of Logistics and Transport) for professional training in transportation
- 2024: Ongoing discussions to strengthen global networking and expanding K-Transportation higher education programs

Key Collaborative Programs

- Internship programs at KNUT for ALT master's/PhD students
- Participation in KNUT's MBA/Executive MBA programs
- Academic mobility for undergraduate students
- Study abroad programs for ALT faculty
- Establishment of joint research Institute
- Joint degree programs in railway fields

Extended Cooperation

- Proposal submitted for Kazakhstan-NRF international joint research
- Discussion of 2+2 dual degree program between KNUT and KBTU (Kazakh-British Technical University)

Mongolian International Cooperation Program Development

Cooperation with MUST (Mongolian University of Science and Technology)

- Discussion of various collaboration programs during KNUT's visit to MUST
- Exploring participation in NRF's Leading University for International Cooperation program

Key Collaborative Programs

- Establishment of a railway department (e.g., rolling stock or railway electrical engineering)
- Exploring support strategies for Railway HRD involving DOHWA ENG, Halla University, and MUST
- Planning joint degree programs and attracting Mongolian international students

Vietnam International Cooperation Program Development

Project Overview

- Vietnam plans to train 14,000 railway professionals to support its national high-speed rail initiative
- Formation of a Korean consortium: Ministry of Land, KORAIL, Korea National Railway, etc.

Educational Collaboration

- Export of K-Transportation higher education programs
- Development of degree exchange programs
- Planning joint degree programs and attracting Vietnam international students

Future Actions

- Continued cooperation with KORAIL International Cooperation Division
- Participation in the K-One Team initiative
- Development of training programs aligned with Korean Railway NCS(National Competency Standards)



Development of K-Transportation Higher Education Programs

Objective

 Turn diverse partner requests into standard, comparable bundles that speed alignment and onboarding.

Programs

- International Degree Exchange Program
- K-Transportation Faculty Training Program
- K-Transportation Short-term Training Program
 - For Faculty and Staff
 - For MBA students
 - For Outstanding Undergraduates

KNUT K-Transportation Global Education and Training Programs

1. KNUT International Degree Exchange Program [(2+2) and (3+1) Education Modules]

Program Objective

- To provide students with advanced academic experiences by integrating foundational and major courses from their home institutions with the higher education system in Korea
- To enhance students' expertise in specialized fields through cutting-edge theoretical and practical coursework at KNUT
- . To prepare students for global career opportunities by equipping them with academic and practical competencies

Program Overview

- Duration: 2 year or 1 year
- Language of Instruction: English or Korean(Supported by automatic translation system)
- Degree Requirements
- a) Completion of all required credits and designated core courses
- b) Satisfactory academic performance in coursework and practical training
- c) Adherence to KNUT's graduation policies and procedures Accommodations: Dormitory of KNUT (Single room per person)
- Venue: Uiwang campus (Gyeonggi Province). KNUT. Republic of Korea
- Implementing Agency: K-Transportation International Education Center (KNUT)

Program Contents

- 1, (2+2) Education Module
 - . Students complete 2 years of undergraduate studies at their home institution and transfer to KNUT for the remaining 2 years
 - A total of 72 credits including 4 designated core courses and major electives, must be completed
- · Graduates receive a bachelor's degree upon fulfilling KNUT's academic requirements
- . Students complete 3 years of undergraduate studies at their home institution and transfer to KNUT for 1 additional year
- A total of 36 credits, including 6 designated core courses and major electives, must be completed
- · Graduates receive a bachelor's degree upon fulfilling KNUT's academic requirement

Target Departments

- 1. Department of Railway Management and Logistics
- Core subjects: Logistics Management, Transportation Economics, Corporate Analysis, and Railroad Freight Transportation
- 2. Department of Railway Infrastructure Engineering
- * Core subjects: Railroad Environmental Engineering, Advanced Railroad Structure Analysis, and Railroad Geotechnical Engineering 3. Department of Railway Operation Systems Engineering
- * Core subjects: Theory of Train Operations, Railroad Safety Law, and Risk Analysis and Assessment,
- 4. Department of Railway Electrical and Information
- * Core subjects: Electric Train Propulsion Systems, Railroad Communication Systems, and Control Systems Engineering
- 5. Department of Railway Vehicle Systems
- * Core subjects: Design of Railway Vehicles, Light Material Engineering, and Noise and Vibration of Railway Vehicles,

Expected Outcomes

- 1, Development of Global Transportation Experts
- * Equip students with advanced expertise in transportation and railway systems, enabling them to drive progress in their home countries' infrastructure.
- . Facilitate the adoption of cutting-edge technologies learned in Korea, improving local systems and aligning them with global
- 3, Strengthened Academic and Practical Integration
- Provide a seamless connection between existing education and Korea's advanced "K-Transportation Model," fostering deeper academic and professional growth,
- 4. Catalyst for Economic and Social Development
- * Cultivate professionals who contribute to the modernization of transportation systems, promoting national growth and global



Thank you!

