



2019 FACTSHEET

Department of Railway and Transport Management (SIRA)

Transport and logistics are key enablers for the world's economic development and prosperity. Trains are rapidly becoming the 21st century's preferred mode of transportation due to their speed, level of comfort and affordability, environmental sustainability and high passenger capacity. As such, investment in railways is increasing worldwide. As high-speed train travel spreads around the world, there is a growing demand for experts in all areas of the industry. Our program offers students a two-track option to focus on the technological side of railroad engineering or the transportation management side. In both cases, our degree does not rely on an in-depth study of pure mathematics but uses it in practical problem solving.

Our program, which is the only program in Korea taught in English by foreign faculties, offers opportunities to gain hands-on experience with public and private companies including Korea Network Research Association (KNRA), Korea Railroad Corporation (KORAIL), and Hyundai Construction. Due to these partnerships, we can boast one of the highest employment rates for graduates among comparable academic institutions. Students also have the opportunity to participate in overseas internships.

Program Highlights:

- South Korea is a leader in the global high-speed rail technology and operational know-how
- A strong affiliation with locally based Korea Rail (KORAIL) enables opportunities for students to learn from practical R&D facilities.
- Fulfills the need for global railroad talent development through various government funding
- Educating global leaders and administrators to facilitate the expansion of cross-country and cross continent railway
- Opportunity to learn the basics of railway operations, digital signaling, computer-aided design, project planning, techniques of global logistics and transport management
- Field trips to advanced railway sites and facilities
- Elective second foreign language courses taught by native professors
- The multicultural educational environment enables graduates to be globally competitive
- Railway driving program-related licenses and certificates



- Active involvement in transport-related domestic & international conferences and exhibitions
- Increasing job opportunities in private and public transport companies for technical, administration, marketing & management related positions around the world
- Student exchange opportunities with partner universities in USA, Australia, Japan, China, Indonesia, France, Germany etc.
- Internships and placement opportunities with multinational companies in Korea and abroad.

Specialized Courses:

Technical	Railroad Structures, Railroad Engineering, Railroad Signaling Systems, Civil Engineering, Mechanical Engineering
ICT courses	Computer Aided Design (CAD), Computer Programming, Logistics simulation, Microsoft Office Specialist
Management	Global Railroad marketing, Railroad Quality Control Management, Project Planning, Global Logistics and Supply Chain Management, Risk Management
Awareness	Railroad System Theory, Electrical Traction Systems, Power Supply for Railroads, Materials for Railroad Construction, Regulations for Urban Railroad Driving
Practical	Railroad Control System, Urban Railroad System, Railroad Seminars

Student learning skills:

- Railway Driver’s License
- Safety License
- Project Management Certification
- Knowledge of international railroad projects
- Control and management of railroad office operations
- Understand railroad layout and structure network
- Project management of the 4th Industrial Revolution (i.e. industry 4.0)
- Develop and articulate a logical and cost-effective transportation plan for a business operation

International Partnerships:

- Shandong Jiaotong University – China
- Jilin Railway Vocational and Technical College – China
- Tribhuvan University – Nepal
- Ho Chi Min University of Transport – Vietnam

Potential Career Paths:

- Railroad construction engineer (civil / mechanical)
- Train Traffic Control Engineer (electrical / signal)
- Locomotive driver



- Station employee / staff
- Administrative staff such as: KORAIL / Metro trains / SRT, High-speed rail, light rail
- Project management at transportation-related corporations
- Officers at government's Ministry of Transportation
- Global railroad safety officer
- Logistic and supply chain manager/administrator
- Railroad Association manager/administrator

ADDITIONAL COSTS:

In addition to the fees paid as part of general admission, certain additional costs are required to fulfill student's participation as a student. All departments have a Student Council Fee (administered by Student Council and monitored by Department Chairs) to include costs that are incurred during a student's 3.5 years with the university. Most departments administer the fees in the same approximate manner.

SIRA Department (Student Council)

Department letter Jacket - 40,000 (for cold weather)

T-shirts - 8,000 × 2years : 16,000

Field trip: 10,000 × 3years : 30,000

Party / Event : 30,000 × 4years : 120,000

Sports day food and snack : 30,000 × 3years : 90,000

Presents for freshman : 4,000

Total= 300,000 Kwon (~USD \$270)