Curriculum Structure

	Credits	
	Plan A	Plan B
Prerequisite Course	15	15
Elective Courses not less than	9	15
Thesis	12	-
Thematic Paper	-	6
Total	36	36

Courses

Required Courses

- Rail Transport System Seminar
- Research Methodology For Railway Transportation
- Rail Transportation Project Planning and Management
- Railway System Components and Standards
- Railway Signalling and Operations
- Principle of Service and Maintenance Design for Rail System (RAMS)

Elective Courses

- Applied Statistics and Simulation for Railway Planning
- Railway Planning and Timetabling
- Railway Transport Economics
- Public Transport System Planning
- Travel Behavior and Demand Analysis
- Freight Rail Transport and Logistics
- Sustainable Transportation
- Materials and Fabrication Processes in Rail Industry
- Inspection and Evaluation for Maintenance of Metal Works in Rail Industry
- Design and Construction of Railway Infrastructure
- Interfacing Electrification and System Reliability
- Railway Signalling and Control

Elective Courses (Cont.)

- Information Technology for Smart City
- Computer System Security for Rail System
- Linear Control
- Railway Track Engineering
- Railway Traction Systems
- Railway Electrification
- Rolling Stock Engineering
- Advanced Dynamic
- Special Topics in Railway Engineering

Contact Us

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For more information

Mahidol University
Faculty of Engineering

Master of Engineering Program

RAIL Transportation System

The Cluster of Logistics and Rail Engineering

- Degree offered: Master of Engineering (Railway Transportation System)
- Language: English (International Program)
- Admission: Thai and International students
- Sessions: Monday–Friday (Module Course)
- Program Length: 1 year and 8 months

Overview

- Multidisciplinary researches
- Core value on industrial and transportation engineering
- Supplementary courses from civil, electrical, and mechanical fields
- Best for policy makers, mid-level managers, practitioners and new graduates
- Module course format

Career Path

- Railway Engineering / Specialist
- Urban Transit / High Speed Rail / Diesel Train System Designers
- Mass Transit Planner
- Railway Transport Planner
- Railway Timetabling Planner / Manager

Admission Requirements

Plan A

- Graduated (or expected to graduate) in Engineering or Science Program, or any related fields before the start of the semester with at least 2.50 GPA.
- Passed English proficiency test as required by the Graduate School, Mahidol University, (minimum 32 for enrollment and 60 for graduation)
- Application qualifications other than the above criteria may be considered based on the judgement of the Program President and/or the Dean of Graduate School

Plan B

- Graduated (or expected to graduate) in Engineering or Science Program, or any related fields before the start of the semester with at least 2.50 GPA.
- Passed English proficiency test as required by the Graduate School, Mahidol University, (minimum 32 for enrollment and 60 for graduation)
- At least 3 years professional experience in the rail transport engineering or related fields.
- Application qualifications other than the above criteria may be considered based on the judgement of the Program President and/or the Dean of Graduate School

Scholarship Opportunities

- Engineering Faculty, Mahidol University Alumni Scholarship
- Mahidol Postgraduate Scholarship for International Students

Contact Us

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