
STUDY PROGRAMME
LOGISTICS ENGINEERING

COURSE CATALOGUE
S12 – LOGISTICS INFRASTRUCTURE

1. OBJECTIVES

The objectives of this course are:

- to acquire insight knowledge of logistics infrastructure
- to analyse the concept of logistics and transport infrastructure
- to define the types of logistics infrastructure and their characteristics
- to define the internal transport infrastructure
- to analyse the importance of the infrastructure of logistics terminals
- to acquire knowledge of IT for management of logistics infrastructure

2. CONTENTS

Road traffic infrastructure – Road classification and categorization; road elements; road crossings; road traffic safety equipment; traffic calming measures; public transport facilities; **Railway infrastructure** – types of railway lines; railway track structure (horizontal and vertical); railway line equipment; Railway electrification system; railway stations and transport facilities; **Air transport infrastructure** – types of airports; elements of airports; safety measures on airports and in air travel; **Water transport infrastructure** – types of ports and port facilities; inland waterways and ports; waterway marking; **Internal transport** - basic concepts and specific features of internal transport; transport routes in internal transport; material handling machines and devices; warehouse systems; **freight/cargo terminals; (IT) logistics infrastructure management.**

3. LEARNING AND TEACHING METHODS

Lectures, workshops, group-discussion, individual work

4. EVALUATION AND ASSESSMENT

Project work and written examination