

Politehnica University of Timisoara
Civil Engineering Faculty

Master's Degree Program: Infrastructures for Transports
(teaching in Romanian language)

The Master program aims at ensuring the possibility of acquiring more thorough knowledge in the fields dealing with railways, roads and bridges. It addresses university graduates who wish to reach superior professional skills in order to be able to enroll in specific activities generated by the broad programs concerning: transport system design, development of transport networks with highways and express roads, rehabilitation of modernized roads and railways, rehabilitation of bridges on the transportation network, design of airports, optimization of maintenance on the transport infrastructure.

The structure of the Master takes into account the specificity of the transport infrastructures with respect to:

- performing thorough site investigations to determine adequate solutions for founding engineering structures, ensuring the foundation soil stability, choosing the optimal alignments, etc.;
- dimensioning the resistance structures under specific stress (dynamic and recurrent), inducing fatigue;
- assessing the overall costs (building, maintenance, operation) and efficiency of the investment;
- the impact of the construction upon the environment.

The courses are finalized with a dissertation thesis dealing with a complex theoretical, practical, design or research study on a topic chosen by the graduate, generally based on his/her current activity or future intentions.