

(cf. RNCIS: http://www.rncis.ro/portal/page?_pageid=117,70218&_dad=portal&_schema=PORTAL)

Title and name of qualification

Graduation title	Engineer				
Name of qualification	Transport and traffic engineering	Qualification code	L20401024010	Contact person	Contact ACPART - ACPART

Identification elements related to qualification

Education level:	Bachelor Studies
Fundamental domain of study:	Engineering sciences
Branch of science:	Transport engineering
Domain-based ranking:	Aerospace engineering, vehicles and transportation
Domain of study:	Transport engineering
Study programme:	Transport and traffic engineering
Total number of credits:	240
Length of study:	4 years
Prerequisites:	
Details:	

Summary of qualification

Professional competences:

Applying the fundamental, theoretical and practical engineering knowledge to make calculus, demonstrations and applications, usage of software in activities specific for transportation engineering

The assessment of the interdependencies between transport and urban and land development in correlation with the principles of sustainable mobility. Assessment of the transport demand. Transport planning.

Designing the technologies used in transport terminals, operational management of the activities inb these terminals, based on an integrated approach to transort systems.

Designing of the traffic technologies and the operational management of the traffic on the networks of the transport infrastructures, for the local, regional and international transport in a multimodal approach.

Identification and practical design of solutions for the improvement of the traffic flows and the prevention and limitation of road traffic congestions in transport networks and terminals.

Fundamentals of the technical, economic and financial background of the decisions related to transport system development.

Cross- disciplinary competences:

Usage of the legal background, of the specific technical national and international guidelines in the elaboration of technical projects in transport and traffic in order to optimize the resource management.

Application of the techniques of cooperation and efficient multidisciplinary teamwork (engineers with different backgrounds, architects, urbanists, biologists, statisticians, mathematicians, economists), on different hierarchical level in an working group, in order to promote initiative and creativity.

Objective and permanent self-assessment in broadening the horizon of knowledge (based on inter-disciplinary), usage of up-to-date information technologies in documentation and learning, including and important foreign language.