

As of January 1st, 2006, based on the law 561/2004 Coll., the Ministry of Schools, Youth and Physical Education founded an independent institution called „Center for educational results appreciation“ (abbreviated as CERMAT). The Center concentrates on solving several key issues related to the need to ensure easy to understand, comprehensive and mutually measurable educational results.

Leaving aside the issue of state coordinated secondary school leaving examination, evaluation and auto-evaluation of schools stands out as equally important area of interest. This area is being worked out within the system project KVALITA I under European Social Fund (ESF). The aim of the project is to gradually develop new system for monitoring and evaluating results of primary and secondary education.

The thesis deals with creation of tools (in the form of achievement tests) aimed at evaluation and auto-evaluation of educational results reached in science topics, namely in chemistry. Preparatory and submission phases were followed by didactic analysis of statistical data obtained through pilot survey using two sets of tasks (each in two modifications), namely “Chemistry basics” and “Critical reading focused on healthy diet and regime”. Based on proposed changes the tasks were adopted and tests were created to measure the knowledge and capability level of students and to serve internal evaluation needs of individual schools. The final version of tests will be provided by CERMAT to primary and secondary schools via internet application for free.