

**Abstract:**

The thesis introduces a theme of cognitive development support of adolescents in the school and family environment. The first part defines the age group of adolescents which is described with particular emphasis on cognitive abilities. The following section explains the basic prerequisite for the development of cognitive abilities, about the theory of structural cognitive modifiability.

The second part describes selected methods of cognitive development promotion. It includes approaches used by general population of adolescents, i.e. Philosophy for children and Building learning power. Furthermore, Feuerstein Instrumental enrichment program and the model of conceptual learning are discussed in the chapter devoted to methods used with individuals with cognitive deficits.

The work also discusses a possible use of ICT as a tool for cognitive development. This section presents the application Tablexia, training of cognitive abilities designed for adolescents with dyslexia. The practical part of the work suggests a research design, which would verify the effectiveness of Tablexia in promoting cognitive development of adolescents with dyslexia.

**Keywords:**

Adolescence, cognitive modifiability, methods of cognitive development, ICT in education, Tablexia