

## **Abstract**

Diploma thesis called „*Digital Generation. Involvement of Information and Communication Technology in Educational Process*“ is focused on the role of computers in a life of adolescents. Information and Communication Technology (ICT) is evolving very fast and transform our everyday life. The aims of the thesis are (1) to explore the change of „digital generation” in Czech society in the beginning of 21 century, (2) to find out if there is a correlation between playing computer games and school results and (3) to identify which factors influence computer literacy. In order to achieve those aims, the comparative secondary analysis of international researches of pupils PISA 2003, 2012 and research focused on computer and information literacy - ICILS 2013 were used. The results suggest that between 2003 and 2013 digital possession and using of ICT by fifteen year old pupils increased, so digital generation Y and Z were identified in Czech society. Playing of computer games remains domain of boys. Computer and information literacy increases with experience with computers, self- esteem of basic computer skills and with a higher society status of parents. Better results in the test also achieve girls and pupils of grammar school.

## **Keywords**

Generation, Information and Communication Technology, Education, Adolescent, Computers, PISA, ICILS