Number	responsible solver	project duration	goals
VEGA 1/0663/19	prof. Dr. Péter Tóth,	1/2019 - 12/2021	Analysis of science and mathematics education in secondary
	PhD.		schools and innovation of teaching methodology
			Today's common economic and social problems are also related
			to the fact, that the underdeveloped scientific competencies of
			students are a major handicap in economic development.
			Scientific competencies means knowledge, skills, ability and
			attitudes, so we can interpret natural phenomena, furthermore
			we can understand and consciously use the technical tools in our
			environment. Mathematical competencies forms an inseparable
			basis of scientific competencies, therefore our research covers
			this field as well.
			As knowledge is constantly changing in these areas, it is essential
			to develop the skills and needs of lifelong learning of secondary
			school students. They will be able to navigate in the world of
			delusions, pseudoscientific knowledge and adverts by having
			professionally established knowledge. For this reason, the
			conscious use of ICT tools in the education of science and
			mathematics is very important.
			Taking into account the above, the main objectives of our
			research in terms of education regarding science subjects and
			mathematics in secondary schools, are the following:
			- Discover the main attributes of natural scientific and
			mathematical thinking, understanding and problem solving.
			- To examine the relationship among scientific and mathematical
			thinking and attitudes, socio-economic status of students, their
			career path and learning styles.
			- To identify the factors influencing the students' relations to
			science and maths subjects.
			- In the framework of pedagogical research explore the teaching
			strategies used during the education of these subjects.
			<ul> <li>To explore the teachers' view on the learning difficulties of</li> </ul>

			<ul> <li>these subjects.</li> <li>To investigate how ICT tools can contribute to the education of these subjects.</li> <li>To formulate recommendations for the methodological renewal of these subject.</li> </ul>
VEGA 1/0117/19	prof. Dr. András Németh, DSc.	1/2019 - 12/2021	The aim of the project is a research into the identity of actual teachers, teacher trainees, and students - within their complex social context, in relation with their socio-economical evironment, formation of steretotypes, as part of the network of social relations, and paralel identifiation of specific elements of national minority school/education process. The project is based on an original research. We intend to apply the method of micro-historical research as an innovative method, which we will carry out through methods of oral history and some other so called "projective methods", such as concept mapping and word association.We will also use the questionnaire method in order to identify and measure the detailes (items) of the professional, personal and national identity of the respondents.We have also included into our project a preparation and realization of a separate panel at an international scientific conference which would include an exhibition of school artefacts, related to our project.