

Adam RUŻYCZKA

University of Agriculture in Cracow

Faculty of Environmental Engineering and Land Surveying

Chair of Land Improvement and Environment Shaping

A. Mickiewicza Street 24-28, 30-059, Cracow, Poland

phone: 12 6624137

e-mail: rmruzycz@cyf-kr.edu.pl

SPATIAL IMAGINATION OF STUDENTS COMMENCING THE COURSE IN DESCRIPTIVE GEOMETRY ON TECHNICAL FACULTIES IN THE YEARS 2011-2014

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In the years 2011-2014, a research on geometrical predispositions was conducted among the first-year students of the Faculty of Environmental Engineering and Land Surveying at the Agricultural University of Cracow. Students of four faculties were included in the research.

Each of the 280 included students answered 10 simple questions regarding geometry, which were designed to assess to our best ability especially the spatial imagination of the students. Also, the knowledge of basic geometry, acquired in primary and secondary school, was essential. What is more, the students could also show their drawing abilities, but it was the oral exam that prevailed.

To sum up our research, we can support the thesis, that the predispositions of the spatial imagination of the students Faculty of Environmental Engineering and Land Surveying at the Agricultural University of Cracow in the years 2011 – 2014 were directly connected to the field of study. It could result from the attractiveness of the faculty itself, which is strictly connected to the number of candidates – different on each faculty.