

# Cognitive learning style in teaching geometry-graphic disciplines for engineering students.

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- **Abstract:** The article formulates the basic principles of teaching: 1) the acquisition of knowledge should be based on the creation of selective systems; 2) the ability to creatively penetrate into the depths of things in the process of productive thinking. The main modern trends prevailing in the educational process when teaching geometric-graphic disciplines are revealed, namely: the inclusion of general scientific information in the methodology of presenting the subject, stimulating the general development of thinking as a whole; the appeal of the content of disciplines to the methods of visual geometry, facilitating the assimilation of new material. Methods of organizing the training of students of engineering specialties in the graph-geometric cycle, based on the cognitive style of teaching, are presented. The examples of the introduction of these teaching methods in the process of organizing and conducting classes in the discipline "Descriptive Geometry" are given, the methodology for presenting individual topics is considered. Pedagogical methods of explaining the computational methods for determining ruled developable surfaces, analytical, graphical conditions that allow the development of surfaces of this class are given. The described methods were tested during the educational process at the Moscow Aviation Institute (National Research University) for first-year engineering students. Recommendations are given on the directions of further pedagogical research in this area.
- **Keywords:** article, acquisition, penetrate, thinking, assimilation, Descriptive, Moscow, pedagogical.