

Formation of Creative Thinking

Adilgali Sagimbayev¹, Nurmukan Diana²

Aktobe Regional University, Kazakhstan

Abstract

The article discusses the development of creative thinking in future specialists through 3D modeling and methods aimed at the formation of creative thinking and the activation of creative activity. The study aims to increase the effectiveness of the development of students' creative thinking by substantiating the directions, methods, and means that allow the development of spatial imagination and creative activity in students. The study showed the multifactorial nature of creative thinking and the difficulty of determining a single indicator for assessing the creative potential of an individual. The ability of trainees to independently and correctly solve positional and metric problems in engineering graphics was chosen as an indicator of efficiency. In the process of enhancing the development of students' creative thinking, the main attention was paid to the development of three creative components: motivational (interests and inclinations), emotional, and mental. The used methods of critical thinking, the heuristic method of teaching, the method of a problem situation (with game elements), and critical analysis allowed the students to more effectively search for the correct solutions to graphic problems of varying complexity.

Keywords: creativity, 3D modeling, educational process, independent activity, convergent thinking, creative personality, professional training