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## **CHOSEN METHODS SUPPORTING DIDACTICS OF DESCRIPTIVE GEOMETRY**

**Słowa kluczowe:** *Geometria wykreślna, AutoCAD, dydaktyka*

Current standards in preparation of descriptive geometry course include developing a program together with lectures and topics of exercises and placing all on the online platforms that are available at any time and from any place. Such created learning environment brings positive results, provided however, that students meet the demand for psychological constructivist learning theory and they actively use collected didactic materials. Then, the efforts of educators will receive their prize in the form of high results in final tests and positive feedback in the course assessment. It seems, however, that even the best-designed program has no chance of success, if not accompanied by interest from students.

The paper will present the chosen methods to support teaching the subject, which are focused on motivational factors. Such actions were taken as part of Students Scientific Circle of Geometry and Engineering Graphics KRESKA, which for a few years has been working in the Faculty of Civil and Environmental Engineering in Gdansk University of Technology.

The scientific circle have taken various actions to create a friendly learning environment in which students have the opportunity to choose forms of activity, style of work, the range of projects. Under the discreet supervision of the tutor, students acquire and use knowledge in the practical application. They organize exhibitions and competitions, work in CAD, as well as participate in teaching during tutorials, and even when they are on higher semester take part in descriptive geometry classes as trainee assistants.

Although submitted activities take place outside of regularly scheduled appointments, the positive aspects of working in the scientific circle move to the classes. Among others, the measure of success of these actions is a large number of Civil Engineering students as participants in the annual edition of Geometric Competition organized at the end of the first semester, during which students solve descriptive geometry tasks with increased degree of difficulty.