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Interactive possibilities of formation of design and research activities of future applied mathematicians in the process of studying informatics

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Modernization of higher education in rapidly developing socioeconomic conditions implies a systematic reforming of future specialists' professional training. The modern society needs highly educated professionals, who are not only capable of navigating in difficult work situations, work in a team and take responsibility for the results of completed tasks, but also willing to make decisions under conditions of frequent change in technology of professional activities.

Interactive relations between the teacher and the student determine the main forms of organization of the educational process. The result is an active student activity, far from simple reproduction, endowed with a transformative, innovative, creative focus. This permits it possible to prepare a university graduate in applied sciences for systemic action in a professional situation, for working with an ever-growing flow of information received, for analyzing and designing his activities, for independent actions in conditions of uncertainty, striving for self-improvement (self-knowledge, self-control, self-esteem, self-regulation and self-development) and creative self-realization.

In this talk authors examines the formation and implementation of design and research activities of future applied mathematicians in the process of studying informatics in Turkmen State University.

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