

ABSTRACTS

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PROFESSIONAL COMPETENCE OF THE TEACHER AS ONE OF THE CONDITIONS FOR THE EFFECTIVENESS OF TEACHING INDIVIDUALIZATION OF INDEPENDENT EDUCATIONAL ACTIVITIES OF STUDENTS

The author on the basis of analysis of psychological and pedagogical literature and the educational process at the higher technical school justifies the need for training teachers to individualize independent educational activity of students in the study of mathematics. Taking into account the current requirements for scientific and pedagogical activities, the definition of «competent academics in the field of individualization of independent educational activities of students» is suggested with characterization of competence components as a system, namely, the gnostic-cognitive, research, methodological, organizational, diagnostic, and reflective components.

The gnostic-cognitive component involves acquiring the content of a school subject (mathematics); the ability to organize independent learning activities of students based on their individual typological features; the ability to learn with students, be an example to them in the quest for constant self-education.

The scientific research component focuses on teacher's self-getting new information in mathematics, methods of teaching, psychology and didactics of higher education. This ability means an ability to find, test and implement innovative approaches to teaching students, methods and techniques of individualization of independent educational activities, scientific analysis and synthesis of scientific and educational activities.

The methodological component includes independent learning activities (ILA), provides for individualization of design skills and design process of individualizing independent educational activities of students in the study of mathematical disciplines, implementing methodological support of this process. The organizational skills include the ability of the teacher to organize individual and group self-learning activities of students during lectures, seminars, workshops, individual consultations in the academic process and in the extracurricular time; ILA organize students for individual plans and programs, support their learning, as well as control the process of the activity and its results.

The reflective component defines the ability of the teacher to understand the process and results of the independent educational activity of students, didactic means of determining the adjustment, improving the quality and forecasting trajectories of individual students in hierarchical levels of readiness in the ILA in the direction of achieving the optimum individual result.

To ensure a sufficient level of competence in the field of individualization of independent educational activities of students, teaching an elective course «Ways and means of improving the efficiency of students' independent work» is recommended – with consultations, discussions, and moderated seminars in accordance with the principles of coaching technology. By using statistical techniques, the effectiveness of the suggested methods was proved in improving the training of teachers, which naturally affected the quality of knowledge in mathematics of students enrolled in the experimental procedure.

Key words: competence, competence approach, professional competence, individualization, self-learning activities.