

Ermakov P.N.

Psychological and pedagogical support for the training of engineering and pedagogical personnel within a state framework of technological sovereignty

Abstract: Modern society and state have reflexed the socio-economic demand for training of highly qualified engineering-pedagogical personnel of new generation. An engineer-pedagogue should not only possess a unique set of skills and competencies in the operation of the most progressive devices and equipment, but also be a didactic translator of this content as an educational mainstream for undergraduates, masters, postgraduates. There is a rethinking of all components of education, educational goals and objectives are adjusted, innovative content is formed, technologies and methods are operationalized, advanced educational forms and experimental systems are introduced. The advanced projects on training engineers-teachers are implemented in a number of experimental and didactic models implemented on the basis of DSTU: consortium “Educational Factory 4.0”; Interregional Scientific-Educational Center of the world level of the South of Russia (SPC of the South of Russia): School of key researchers of the South of Russia IEC; Advanced Engineering School; Institute of advanced technologies “School X” DSTU; Institute of end-to-end technologies “T-University”. A holistic system of formation, development, identification and assessment of engineering and pedagogical competencies of students has been developed; new opportunities for obtaining relevant skills and competencies, realizing one's own potential in practice-oriented activities, as well as the possibility of successful employment in leading Russian and world universities of technical profile are presented.