

International Journal of Pharmacy and Technology, 2016, vol.8, N3, pages 14911-14925

---

## **Statistical analysis of the professional competence study on the example of the field “applied information science in economics”**

Eremina I., Faizullina A.

*Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia*

---

### **Abstract**

© 2016, International Journal of Pharmacy and Technology. All rights reserved. The article analyzes the results of forming the professional competence of future IT professionals of the Applied Information Science in Economics at the Naberezhnye Chelny Institute of the Kazan Federal University (NCHI KFU). The mathematical modeling methods, main provisions of mathematical statistics, optimization methods, apparatus of multidimensional scaling and qualimetric estimation, theories of high school education and bringing-up process management were selected as the methods of the study. A comprehensive simulation model for forming the professional competence of future IT professionals of Applied Information Science in Economics in view of the interaction of the main technological processes based on the IDEF0 technology (function modeling (IDEF=ICAM Definition), ICAM= Integrated Computer Aided Manufacturing) and integrated estimation of functioning efficiency of the professional competence formation system for future IT professionals of Applied Information Science in Economics characterized by the possibility of estimating on several indicators of adequacy and sufficiency of the analyzed competence are represented. In analyzing the data new results of scientific and practical importance in the field of mathematical modeling and education were obtained - mathematical diagnostics models for professional competence formation results.

---

### **Keywords**

Adaptive prediction technique, Assessment, Competence, Level of professional competence formation, Mathematical modeling methods, Modeling and Time series prediction methods, Professional competence, Qualimetry, Statistical methods