

ABSTRACT

Bachelor's thesis: 83 p., 18 fig., 14 tabl., 5 append., 23 sources.

The theme: “Methods for assessment of teaching methodology’s efficiency and for assessment of students’ knowledge level”.

ASSESSMENT OF EFFICIENCY, TEACHING METHODOLOGY, STUDENT’S T-TEST, DISPERSION ANALYSIS, METHODOLOGY OF STUDENTS’ KNOWLEDGE ASSESSMENT.

The aim of the current work is to research the assessments methods of teaching methodologies efficiency, using SAS software and to renovate the method of students’ knowledge assessments.

The thesis researches such statistical methods as Student’s t-test, single- and dual-factor dispersion analysis. The work also analyzes the influence of two major self-educational strategies - interval and non-stop studying methods – on the studying results, as well as more specific approaches such as self-testing, video tutorials, re-reading of materials, condensing notes, diagrams, flashcards, group studying, highlighting, copying the notes and reproducing the notes.

The thesis contains the review of existing knowledge assessments methods and offers the ways of renovation of one of the methods. The methodology foresees the division of the questions into basics, their derivatives and the interdependencies between them.

The software that helps to implement the offered method was developed. The input data contains description of dependencies between exam tasks (questions) and a set of exam task lists. The output data is the study-course coverage of each exam task list.