**Belarusian State University**

**Faculty of Mechanics and Mathematics**

**Department of nonlinear analysis and analysis of the economy**

**Annotation to the diploma work**

**«Mnemofunctions on operators»**

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**Diploma advisor Olga Pindrik**

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Diploma work contains:

– 55 pages,

– 8 used sources.

Keywords: COMMON FUNCTION, GENERALIZED FUNCTIONS, ALGEBRA, IDEAL, FACTOR-ALGEBRA, GENERALIZED FUNCTIONS ON OPERATORS, MNEMOFUNCTIONS.

In the diploma the method of constructing the new algebra of generalized functions and generalized operators, the way of calculating mnemofunctions on operators are determined and examples of some calculation mnemofunctions on operators is provided.

The aim of the diploma work is to describe the spaces of generalized functions and generalized operators, as well as the use of certain mnemofunctions on operators.

In the diploma, the necessary mathematical apparatus for constructing a functional calculus operators is entered. Examples of mnemofunctions calculation of self-adjoint operator.

The diploma work is theoretical nature. Its results can be used in further studies.