

## **Report of “Function Theory” department of IMM on scientific and scientific – organizational activity for 2016.**

On the report year, 4 works connecting 4 executors on the theme “Approximation of functions of many variables by ridge functions, neural networks, linear and nonlinear superpositions, embedding theorems for function spaces” were carried out. On this period, 11 papers (5 of them were included in Thomson Reuters) were published. Besides, 6 papers were accepted to print.

On the report period, head of the department, doctor of mathematical sciences Vugar Ismailov, leading research associate of the department prof. Alik Najafov and senior research associate, cand. of . phys. math. sci. Rashid Aliev gave reports at the institute seminar. The department collaborators take part at department seminars.

On 24.01.2016 – 28.01.2016 head of the department Vugar Ismailov was on a professional trip at Istanbul Commerce University at Istanbul city of Turkey and had discussions with professor Ekrem Savas on scientific directions of the department.

The grant project № EIF 2013-9(15)-46/11/1 on the theme “Representation of ridge functions by functions of many variables” was successfully completed.

On February 19, 2016, the collaborator of the department Aygun Orujova has successfully defended the dissertation work “Embedding theorems in generalized Besov – Morrey – type spaces” for earning the degree of philosophy doctor in mathematics.

Head of department

doctor of math. sci. Vugar Ismailov