

## **Report of “Functions theory” department of Imm ANAS for 2015**

On the report period 9 works connecting 9 executors on the theme “Approximation of functions of many variables by Ridge functions, linear and nonlinear superpositions, inclusion theorems for functional spaces” were completed. On the report year 15 papers (3 of them are in Thomson Reuters base), 6 books and 4 abstracts were published. 7 papers are in print. In general 80 papers of the department were referred to.

On this period, the head of the department, doctor of mathematical science Vugar Ismailov, cand. of phys. math. sci. Niyazi Ilyasov and prof. doctor of phys-math. sci Rahim Rzayev have given talks at the institute seminars. The research associates of the department have taken an active part in the department seminars.

The department has taken part in Azerbaijan-Ukraine-Turkey Conference on Mathematical Analysis, Differential equations held on September in Baku. Furthermore, cand. of phys. math. sci. Niyazi Ilyasov and cand. phys. math. sci. Rashid Aliyev have participated and given talks at the scientific conference devoted to 95 years of prof. S. V. Stechkin “Functional theory, approximation theory and their applications” held by the Institute of mathematics of Ural branch of the Russian Academy of sciences.

Grant N EIF-2013-9(15)-46/11/1 of Science Development Foundation on the theme ”Representation of functions of many group of variables by the Ridge functions” is now being completed.

Senior laboratory assistant of the department Aygun Tofiq kizi Orujova has submitted her PhD dissertation work “Inclusion theorems in generalized Bessov-Morrey type spaces”.

**Head of the department**

**doctor in math. Vugar Ismailov**