

# HISTORY OF THE DEPARTMENT



**Acting Head of “Information Technologies” Department**

**Ph.D., Associate Professor**

**Sayibdzhan Sabitovich Mirzaev**

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In 1967 on the basis of “Higher Mathematics” Department there was established “Computational Mathematics” Department.

Until 1969 mechanical and electromechanical computers were used to organize the educational process at the department. In 1969 the first electronic computer “Mir” was installed and in 1972 a computer “Minsk-32” was installed and there was organized a “Computer center” at the department. Since that period of time, the subject “Computer technology in engineering and economic calculations” was included in the curricula of all specialties. In 1972 at the institute there were organized educational classrooms on the basis of “Iskra” computer. And in 1980 by the institute there was purchased an IBM “ES-1022” computer.

The first head of the “Computational Mathematics” Department was Associate Professor K.K. Konusbekov. From 1972 to 1980 the department was headed by associate professor A.S. Khabirov, from 1980 to 1994 - Professor A.A.Gafurov.

In 1992 on the initiative of Academician of the Academy of Sciences of the Republic of Uzbekistan V.K. Kabulov at TIAME there was organized the department “Mathematical methods and models in engineering calculations”. Doctor of Technical Sciences, Professor Kh. Eshmatov was appointed head of the department.

Associate professors K. Dzhamalov, S. S. Mirzaev, G. Shadmanova, E. Ibraev and others were transferred from the department of “Higher Mathematics” to the new department.

In 1994 the departments of “Computational Mathematics” and “Mathematical Methods and Models in Engineering Calculations” were merged, and the department of “Computational Mathematics and Mathematical Modeling” was organized. Professor Kh. Eshmatov was appointed head of the department.

Basic information about Kh. Eshmatov

Kh. Eshmatov defended his candidate's dissertation in 1975 and his doctor's dissertation in 1991.

He published 4 monographs, 5 textbooks, more than 200 scientific articles, more than 70 of them were published in prestigious foreign scientific journals. Based on the results of research studies, 5 copyright certificates for computer programs were received from the State Patent Bureau.

Kh. Eshmatov was the first to construct mathematical models of nonlinear dynamic problems in the theory of elasticity. Based on the analysis, the most effective methods for solving the constructed problems were selected. For the first time, problems of dynamic stability of viscoelastic systems in the infinite interval have been solved. Numerical methods for solving systems of linear and nonlinear integro-differential equations of Voltaire type were proposed and justified.

Under the guidance of Professor Kh. Eshmatov, his following students successfully defended their doctoral and candidate dissertations:

### **Candidates Dissertations :**

1. Akbarov Ummatali, 1991.
2. Akhmerov Izzatilla, 1994.
3. Nasretdinova Shakhnoza, 1995.
4. Bobonazarov Sharof, 1997.
5. Khudoyarov Bakhtiyor, 1998.
6. Abdullaev Zafar, 1999.
7. Tukhtabaev Akhmadzhon, 2001.
8. Khodjaev Dadakhon, 2009.
9. Kucharov Olimzhon, 2012.

### **Doctoral Dissertations:**

1. Khudayarov Bakhtiyor, 2008.
2. Abdukarimov Rustamkhan, 2017.

Kh. Eshmatov established scientific cooperation with many leading foreign scientists in the field of mathematical modeling of the mechanics of elastic bodies.

Kh. Eshmatov steadily increased his scientific and pedagogical potential. In 2005, he advanced his qualifications at Cornell University in the USA, in 2007 at the Massachusetts Institute of Technology and in 2009 at the University of Arizona.

He was a member of the Scientific Council and the Scientific and Methodological Council of the Institute. During his leadership, a city scientific seminar on Mathematical Modeling was held at the of "Information Technologies" Department.

Eshmatov Hasan was an excellent student of Public Education of the Republic of Uzbekistan. For his activities, he was repeatedly awarded with gratitude certificates and certificates of honor from the Institute and the Ministry of Higher and Secondary Specialized Education of the Republic of Uzbekistan.

During the period from 1994 till 2023, Professor G. Shodmonova, associate professors G. A. Popov, K. Zhamolov, S. Mirzaev, Z. Abdullaev, D. T. Mirzarakhimova, N. Mukhamedov, T. S. Maksudov, E. worked at the department. Besides that among the professor-teachers there were I.Ibraev, M.R.Musamukhamedov, Kh.Meiliev, N.B.Shamsitdinov, Z.Saidmurodov, M.Yusupov, Sh.P.Bobanazarov, Yu.H.Eshkobilov, B.Rakhmankulova, H.H.Karimova, D.A.Khodzhaev, B.H.Eshmatov, D.Ziyadullaev, senior teachers Z.K.Kurbonaliev, G.A.Rakhmonova, R.I.Zhukova, I.S.Akhmerov, Sh.A.Ainakulov, assistants Kh.Togaev, H.I.Usmanov, Sh.Ziyaeva, S.P.Mavlonov, G.Abdumalikova, U.A.Nasritdinova, A.O.Mamatkulov, O.Khafizov, K.Kubyashev, S. Ungalov, Sh. Turkmanova , M. Rakhmonova.

Under the leadership of professors B. Berkinov and G. Shodmonova, there was organized a "Econometrics and Statistics" school, scientific work and research was carried out in the field of economic and mathematical methods and models and candidate dissertations were defended by Sh. Ergasheva, B.O. Rakhmankulova, Kh.Kharimova.

In 1998-2002, Academician of the Academy of Sciences of the Republic of Uzbekistan V.K. Kabulov was invited to the department. Under the leadership of Prof.V.K. Kabulov, the department carried out scientific

and methodological work on the use of information technologies and mathematical methods to solve actual problems on agriculture and water management.

In 2001, the department was renamed “Informatics and Information Technologies”, and in 2004 it was renamed “Information Technologies”.

From 2011 to 2017, the “Information Technologies” Department was headed by the Candidate of Technical Sciences, Associate Professor S.S. Mirzaev. During this period, the department achieved the following results::

With the financial support of the Agency of the Republic of Uzbekistan for Communications and Information (now the Ministry of Digital Technologies), 4 computer classes were created at the department, which were equipped with 45 modern computers. The department also received 5 video projectors, 5 printers, 1 electronic board, which are used in the educational process and conducting research and educational work.

In 2011-2017, professors and teachers of the department published 1 textbook, 3 monographs, 2 tutorials.

The textbook “Computer Science and Information Technologies”, created by professors and teachers of the department, in 2013 received the 1st place in the Republican competition “The Best Author of a Textbook and Educational Literature of the Year”.

U.Nasritdinova, assistant of the department took part in the Republican competition “Innovative ideas of youth” of the Ministry of Higher and Secondary Specialized Education of the Republic of Uzbekistan in 2014, where she was awarded with a 2nd degree diploma.

G. Shodmonova, Associate Professor of the Department became the winner of the competition “The Best University Teacher” of the Ministry of Higher and Secondary Specialized Education in 2015.

From 2017 to 2023, the department was headed by associate professor Z.S. Abdullayev. Associate Professor Z. Abdullaev held the positions of senior laboratory assistant of the department from 1992 till 1994, a graduate student from 1994 till 1997, an assistant within the period of 1998-2001, a deputy dean of “Water Management and Economics” Faculty from 2001 till 2004 and dean of the mentioned faculty during the period 2004-2017.

In 2017, Candidate of Physical and Mathematical Sciences Z. Abdullaev, a student of Professor Kh. Eshmatov, was appointed to the position of head of the department. Z. Abdullayev published 2 textbooks, 2 mobile electronic textbooks, 8 teaching manuals, 4 monographs, more than 100 scientific articles, including more than 10 scientific articles in prestigious scientific journals.

Under the leadership of the head of the department, Z. S. Abdullaev, the educational laboratory of the department was equipped with a modern computer equipment, which is connected to the local network of university and the global Internet.

Currently, the department is headed by Associate Professor S.S. Mirzaev. At present time the following professor-teachers are working at the department, such as G. Shodmonova, associate professors B. Rakhmankulova, K. Kh. Karimova, D. Sh. Ziyadullaev, senior teacher Sh. A. Ainakulov, assistants Sh. Rakhmonova and S. Ungalov.

Professors and teachers of the department, together with several HEIs specialists are conducting scientific research and creating teaching manuals and textbooks.

The main objective of the department is to train students in the hardware and software of information technology, the use of information technology and mathematical methods to solve problems in their specialty in agriculture and water management, the basics of using modern information technologies and systems, the basics of working in computer networks, methods and means of data processing, construction

of mathematical models of profile problems.

The department in cooperation with Cornell, Michigan, Buffalo, Washington Universities of the USA, and the Research Institute of Modeling Problems in Energy of the Academy of Sciences of Ukraine is conducting research work and preparing scientific articles, doctoral dissertations, textbooks and teaching manuals.

The teaching staff of "Information Technologies" Department, taking into consideration the policy pursued by the President of our country, in terms of working in the field of training comprehensively the competent specialists, gaining good knowledge and experience in order to contribute for the prosperity of the society. Professor-teachers of the department are making their worthy contribution for improving the well-being of our people, training qualified specialists for the development of agriculture & water management by implementing government regulations, orders and instructions from the leadership of the Ministry of Science, Education and Innovation of the Republic of Uzbekistan.

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