

Head of the department

## Doctor of Technical Science, Zaynidinov H.N.

**Reception time:** Monday-Friday (14: 00-16: 00)

**Phone:** (0 371) 238-65-19, 238-64-37

**E-mail:** [h.zaynidinov@tuit.uz](mailto:h.zaynidinov@tuit.uz)

The department began its activity in August 2002 under the name of "Information technologies" department, from 2002 to 2013, the department was headed by Doctor of Technical Sciences, Professor S.S. Kasimov, PhD, V.N.Kogay, Doctor of Technical Sciences, Professor H.N. Zaynidinov, PhD, Djailavov A.A, PhD, Karimova V.A. Doctor of Technical Sciences, Professor Kasimov S.S made a great contribution to the structure and development of the department. Since September, 2016 the department is headed by the doctor of technical sciences, professor Zaynidinov Hakim Nasritdinovich.

From 2002 to 2009 he was the head of the Department of Information Technology. During this period he supervised 7 Ph.D. and 1 Doctor scientific work. Under Qosimov S.S. leadership and involvement with more than 20 scientific and research works were accomplished in agriculture. He is the author and co-author of 40 textbooks, manuals and brochures, 300 scientific articles, and over 50 certificates and patents.

In 2010-2011, the head of the Department of "Information Technology" was Ph.D., Associate Professor Kogay V.N, nowadays he works as a docent (associate professor) of the department, he is actively engaged in scientific work and is supervising the scientific work of the master's and bachelor's degrees.

From 2011 to 2012, Ph.D. Zaynidinov Kh.N. was the head of the Department of Information Technology and head of the Department of Information and Communication Technologies of the Academy of Public Administration under the President of the Republic of Uzbekistan in 2013-2015. Today, Zayniddinov Kh.N, under his leadership and involvement, more than 20 scientific and research works have been accomplished in agriculture. He is the author and co-author of 40 textbooks, manuals and brochures, 300 scientific articles, and over 50 certificates and patents, including his scientific works which have been published in scientific journals in England, Germany, USA, Slovakia, Russia, Japan, South Korea, Malaysia, India and other countries.

**V.N.Kogay**

**H.N.Zaynidinov**

**A.A.Djaylalov**

**V.A.Karimova**

The main tasks of the department are to train leading bachelors and masters of modern information technologies, teaching methodological and scientific- research works. In recent years, with the help of the ICT Development Fund, 3 modern training laboratories have been created: "Parallel processing and IT services" , "Open source software" research laboratory and laboratory of "Oracle" academy.

## Bachelor degree

5330200

Computer Engineering (IT Service)

## Master's degree

5A330203

Computer Engineering (Design of practical software)

5A330502

“E-Government Management”

## Subjects taught at the department:

### Bachelor's degree:

- Analysis and design of business systems
- The data bank and the database
- Intellectual systems
- IT service engineering and services management
- Technology management
- Web technologies
- Electronic payment systems
- Planning and analysis of information systems
- Artificial intelligence
- Problem analysis and solution
- Project management
- Database Management Systems, Oracle Basics
- e-government
- Basics of e-business and mobile e-business
- Design of information systems
- IT services and legal principles
- Supply chain management
- Cloud computing
- Ability planning methodology

### Master's degree

5A330203 - Computer Engineering (Application Software Design)

- IOT technology
- Designing CRM systems

A330502 - “E-Government Management”

- Design of the e-government system

## PROFESSORS AND TEACHERS OF THE DEPARTMENT

### Information Technologies Department

No.	Photo	Name in Passport (First Name / Last Name)	Position	Subjects	Related Department
1		Zaynidinov Khakimjon Nasritdinovich	Head of Department	IOT technology	Information Technologies
2		Yakubov Maksatkhan Sultaniyazovich	Professor of Department	E-Government System Designing	Information Technologies
3		Tursunbaev Fazil Karimovich	Professor of Technical Sciences	IOT technology, E-Government	Information Technologies

4	Kogay Vkvnjulaleriy Nikolaevich	Docent, Doctor of Philosophy (Ph.D.)	IOT technology, Database Management Systems	Information Technologies
5	Karimova Venera Arkinovna	Docent, Doctor of Philosophy (Ph.D.)	CRM systems design, E-Government	Information Technologies
6	Zainutdinova Mastura Bakhodirovna	Dosent, Doctor of Philosophy (Ph.D.)	Designing CRM systems, E-Government	Information Technologies
7	Avaz Kuvnakov Avtogaz Ergashevich	Senior Lecturer, PhD student	Business Systems Analysis & Design E-Government, Introduction to speciality IT-Service, Computer network II	Information Technologies
8	Yuldashev Rakhmon Khusanovich	Senior Lecturer, PhD student	E-Government, E-business fundamentals and mobile e-business	Information Technologies
9	Atadjanova Mukaddas Pulatovna	Senior lecturer	Artificial Intelligence	Information Technologies
10	Khojakulov Toshtemir Abdihafizovich	Senior Lecturer, PhD student.	Database Management System, Project management , Problem, solving and analysis, Artificial Intelligence, Database administration	Information Technologies
11	Mukhtarova Gulnora Khatamovna	Senior lecturer	E-Government, Artificial Intelligence	Information Technologies
12	Abdul Azalova Maxina Yashnarovna	Senior Lecturer, PhD student	E-Payment Systems, E-Government, Artificial Intelligence	Information Technologies
13	Azimova Umida Asralovna	Senior lecturer	E-Government	Information Technologies
14	Gaipnazarov Rustam Taxiritdinovich	Assistant lecturer	Database Management Systems, Technology Management	Information Technologies
15	Djuraev Tulkin Boysoatovich	Assistant lecturer	Supply Chain Management, Technology Management	Information Technologies
16	Madrakhimov Alisher	Assistant lecturer	Artificial Intelligence	Information technologies Department
17	Jiyanbekov Khurshidbek Ravshanbekovich	Assistant professor	Cloud computing, E-Government,	Information Technologies
18	Khalilov Sirojiddin Panjievich	Assistant lecturer	Business Systems Analysis & Design, Web Technologies	Information Technologies
19	Nishonboev Golib Maxammatyakubovich	Assistant	The legal framework for IT services, IT Services Engineering and Services Management	Information Technologies
20	Elmuratov Madiyar Koshkinbayevich	Assistant	Analytical and planning information systems, Business Systems Analysis & Design, E-Government	Information Technologies
21	Yusupov Ibroximbek	Assistant	Database management system, Cloud computing, Information technology service management,	Information Technologies
22	Mamatova Nodira Mirzavaliyevna	Assistant	Analytical and planning information systems, E-Government	Information Technologies
23	Maxmudjonov Sarvar Ulugbekovich	Assistant	Problem analysis and solution, Web technologies, E-Government	Information Technologies
24	Askaraliev Odilbek Ulugbek ugli	Trainee teacher	Database system management (DBMS), Business Systems Analysis & Design	Information Technologies
25	Kuchkarov Muslim Athamjon ugli	Assistant teacher	Database system management (DBMS),	Information Technologies

The main tasks of the department are to train leading bachelors and masters of modern information technologies, teaching methodological and scientific- research works.

In recent years, with the help of the ICT Development Fund, 2 modern training laboratories have been created: "Parallel processing and IT services" and "Open source software" research laboratory.

## SCIENTIFIC RESEARCH WORKS OF THE DEPARTMENT:

### Research work performed in 2018-2020.

- BV-Atex-2018-249 "Development of methods and algorithms for digital processing of biometric signals"  
Zaynidinov H.N - Project Manager  
(2018-2020) 180,0 mln. UZS - Project cost

### Scientific-methodical work of the department:

1. Zaynidinov H.N., Usmanov B.Sh. "Architecture of computers and computer systems", a textbook for technical universities.
2. Yakubov M.K., Zaynidinov H.N., Yuldashev R.R., Malikova N.M. "Electronic Government".
3. Hujakulov, T.N., Zaynidinov, H.N., Atadjanova, MP Textbook on artificial intelligence.
4. H.N. Zaynidinov, F.M. Alimova, "Basics of e-business and mobile e-business."
5. Zaynidinov H.N., Yakubov M.K., Yusupov I.N. The concept of e-government.
6. Tutorial "Business strategy and information communication system."
7. H. N. Zaynidinov, F.K Tursunbaev, M Abdul-Azalova ,. "Guide to Strategy and Strategy Information System".

### Official registration certificates for software for electronic computers

1. Zaynidinov H.N., Bobojnov M.M., Bobojnov M.K. modeling the number of poles of two-speed engines - Agency of Intellectual Property of the Republic of Uzbekistan. Certificate of state registration of software for electronic computers № DGU 05292, 05/17/2018
2. Zaynidinov H.N., Bahramov S.A, Kuchkarov M.A, Mahmudjanov S.Yu. Program for iodization of complex physical areas using splines Agency of Intellectual Property of the Republic of Uzbekistan. Certificate of state registration of software for electronic computers № DGU 05197, 04/11/2018
3. H.N. Zaynidinov, U.R. Xamdamov. Software for parallel processing of VMR forms. The VMR software is a parallel processing of the image format. Intellectual Property Agency of the Republic of Uzbekistan. Certificate of state registration of software for electronic computers № DGU 04850, 10/27/2017
4. H.N. Zaynidinov O.Yu. Mallaev M.A. Artikova "software package for parallel processing of seismic signals on multi-core processors". Intellectual Property Agency of the Republic of Uzbekistan. Certificate of state registration of software for electronic computers № DGU 04850, 04/19/2018

### Recent publication of teachers of the department

1. H.N. Zaynidinov, A.E. Mirzaev, S.P. Halilov. Application of spectral properties of basic splines in problems of digital signal processing. // Automation and software engineering. 2017, №4 (22), Novosibirsk, Russia, p. 80-85.
2. H.N. Zaynidinov, G.O. Tojiboev, O.U. Mallaev. Parallel seismic signal processing algorithms on multi-core processors. // Automation and software engineering. 2018, №1 (23), Novosibirsk, Russia, p. 89-95.
3. H.N. Zaynidinov, Bahramov S.A., Kuchkarov M.A. Methods for modeling thermal fields by cubic

- splines. // Automation and software engineering. 2018, No. 1 (23), Novosibirsk, Russia, pp. 96-102.
4. H.N. Zaynidinov, U. U. Turapov. Creation of algorithms and software for a mathematical model of a non-invasive glucometer based on bioactive points. // Bulletin of the Association of Doctors of Uzbekistan, 2017, №2, p.10-14.
  5. H.N. Zaynidinov, I. Yusupov. Octave methods for calculating signal energy based on wavelet transforms. // Muhammad Al-Hwarazmi Generations, 2018, 1 (3), p.3-7.
  6. H.N. Zaynidinov, S.U. MaHmudjanov, N.T. Mustafayeva. Algorithms and programs for pre-processing of biomedical signals. // Muhammad Al-Hwariziya Avlodlari, 2017, 2 (2), pp. 8-13.
  7. Zaiyniddinov Hakim Nasiritdinovich, Mirzayev Avaz Egamberdievich, Halilov Sirojiddin Panjievich. THE USE OF THE SPECTRAL PROPERTIES OF THE BASIS SPLINES IN THE PROBLEMS OF SIGNAL PROCESSING. Journal of Multimedia and Information Systems. Vol 5, N 1, Marth, 2018, pp.63-66. ISSN -2363-7632.
  8. Nurjanov F.R, Gafurov Yu.I., Algorithm for detecting a person's face in digital images // International scientific conference "Modern modification in the national education", Theoretical and practical sciences Moscow-2018 52-56 p.
  9. Nurjanov F.R. "Investigation of methods of identification in forensic science" // Samara Regional Department of the Scientific Council on the problems of the methodology of artificial intelligence., "International Scientific and Technical Conference", "Perspectives of Information Technologies"., Samara - 2018 April 16-19 508-512 p.

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