The head of the department:

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On the basis of the minutes of the meeting of the Scientific Council of Tashkent University of Information Technologies No. 10(660) of June 30, 2016, according to the order of the university No. 834 of July 5, 2016, the department "Hardware and software of management systems in telecommunications" was established. Assistant professor S.S.Parsyev was appointed to the position of head of the newly established department, and he headed the department until August 2022. From September 2022, B.U.Akmuradov, Ph.D., associate professor, was appointed as the head of the department. Currently, there are 11 professors and teachers working in the department. Among them: 2 are doctors of science, 4 are candidates of science (and PhD), 4 are senior teachers, 1 is working as an assistant.

From the establishment of the department until now, significant achievements have been made by the professors and teachers of the department in terms of scientific research, educational and methodological work. In particular, U.R.Khamdamov, S.S.Parsiyev, Dj.B.Sultanov successfully defended their dissertations to obtain the DSc scientific degree, and M.B.Mirzayeva, J.B.Elov, B.U.Akmuradov successfully defended their dissertations to obtain the PhD scientific degree. Even now, the professors and teachers of the department are consistently continuing methodological work on conducting research and creating educational literature.

Subjects taught at the department

Undergraduate:

- Fundamentals of network programming
- Programming structure in telecommunications
- Fundamentals of managing telecommunication networks
- Information communication systems and networks

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- Programmable digital devices
- Microprocessor systems
- Programming in infocommunications
- Modeling of information communication systems
- Integrated management systems
- Infocommunication Digital devices.

Master's:

- Design of telecommunication information systems
- Architecture of telecommunication software systems
- Network software design

PROFESSORS-TEACHERS OF THE DEPARTMENT

- Abdurakhmanov R.P.- Associate professor
- Mirzaeva M.B. – (Ph.D), Associate professor
- Abbaskhonova H. Yu. – Associate professor
- Djurayev O.N. – Senior lecture
- Abdullayev U.M. – Senior lecture

- Akhmedova X.X.– Senior lecture
- Tajiyeva F.C.– Senior lecture
- Khamdamov U.R .– (DSc), Associate Professor.
- Sultanov J.B. – (DSc), Associate Professor.
- Elov J.B.– (PhD) Senior lecture
- Zarmasov E.M. – Assistant.

The following auditoriums are attached to the department for the purpose of quality organization of classes, practical and laboratory training in accordance with the lesson schedule.

- 102A - "Huawei" laboratory room
- 10A - laboratory and practical training room
- 12A - laboratory and practical training room
- 14A - laboratory and practical training room
- 108A is a lecture training room
- 109A - lecture training room
- 111A – educational laboratory room

LIST OF STATE GRANTS (FUNDAMENTAL, PRACTICAL, INNOVATIVE AND ECONOMIC)+ PROJECTS PERFORMED IN THE DEPARTMENT

1. F3-2019080214 "Creation of a multifunctional robot used in emergency situations" (practical). 2020-2021
2. BV-Atex-2018-251 "Development of speaking software and voice synthesizer based on the Uzbek language that allows blind people to use computer technology, read and write texts" (practical project). 2018-2021
3. AKT-A-25 "Creation of a software product for remote monitoring of plots of closed land area of farms". 2021-2022

SCIENTIFIC METHODOLOGICAL WORKS OF THE DEPARTMENT

1. Abdurakhmanov R.P. Microprocessor // Textbook -T.: "Communicator". -264 p.
2. Abdurakhmanov R.P., Tojieva F.K. Microprocessors // Textbook -T.: "Communicator". -264 p.
3. Abdurakhmanov R.P. // "Modeli i metody rascheta veroyatnostno-vremennyx kharacteristics system opravleniya trafikom v shirokopolosnyx netyax" (Monography). : "Nihol print" Abdurakhmanov R.P. 2021. -216 c.
4. Abaskhanova H.Yu., Mirzaeva M.B., Parsiev S.S. "Microprocessor" (study guide) - T.: "Nihol print" OK, 2021.-200 p.
5. Khamdamov UR, Sultanov JB, Parsiyev SS, Abdullayev UM // Operating systems (tutorial).-T.: "Nihol print" OK, 2021.-436 p.
6. Mirzayeva MB // "Decision-making models and algorithms in communication network management" (monograph).
7. Abaskhanova H.Yu., Jurayev LN, Hashimova FR Digital technique (tutorial) – MUHR PRESS, 2022. -200 p.
8. Abaskhanova H.Yu. Digital technique (textbook). MUHR PRESS, 2022. -184 p.
9. Khamdamov U.R. Parallelnaya obrabotka signalov (tutorial). -234 p.

LIST OF PUBLISHED ARTICLES OF PROFESSORS AND RESEARCHERS OF THE DEPARTMENT

1. Nishanbaev T.N., Parsiev S.S., Izbasarov A.F. Prof. Optimization of the structure of the setey spetsialnogo naznacheniya Military Institute of Information Communication Technologies and Communications. Military communication and ICT messages. Scientific methodological magazine

Vyp. No. 2 (2) / 2020, p. 100-105.

2. Nishanbaev T.N., Parsiev S.S. Characteristic and mathematical model of the set of special characteristics. // Journal "Information Communications: Networks, Technologies, Solutions" Scientific and technical journal. #4 (40). 2020 - S.12-15.

3. Khamdamov U., Mukhiddinov M., Akmuradov B., Zarmasov E. A novel algorithm of number to text conversion for Uzbek language TTS synthesize International Conference on Information Science and Communications Technologies (ICISCT 2020). IEEE, 4-6 November 2020, Tashkent Uzbekistan.

4. , Tojieva F.K. Access to the multiservice network through modeling is based on self-image of incoming traffic. Muhammad al-Khorazmi Journal No. 2 (12), 2020 – P.59-68.

5. Abdurakhmanov R., Tojieva F.K. Determining the optimal modes of functioning of the system management system for QoS obespecheniya Muhammad al-Khorazmi Journal No. 1 (11), 2020 – B.36-40.

6. Akmuradov B.U. Method of speech synthesis in Uzbek language based on semantic analysis. Descendants of Muhammad Al-Khorazmi. Scientific-practical and information-analytical journal 3(13)/2020.

7. Mirzaeva M.B. Communication network reliability evaluation using the simulation approach Tashkent state technical university. Named after Islam Karimov. "Technical science and innovation" Tashkent-2020, No. 4(06).

8. Akmuradov BU speech synthesizer algorithm for editing electronic text elements in Uzbek Latin alphabet. "Descendants of Muhammad al-Khorazmi" // Scientific-practical and information-analytical magazine. No. 1(15), 2021. -B. 8-16.

9. Khamdamov U.R., Akmuradov B.U., Mukhiddinov M.N., Zarmasov E.M. "eYespeakTTS" is software for voice pronunciation of texts in Uzbek.//DGU 09332. 10.2020.

10. Khamdamov U.R., Akmuradov B.U., Mukhiddinov M.N., Zarmasov E.M. "eYespeakSymbols" - software for voice pronunciation of symbols in Uzbek language texts.// DGU 09530. 30.10.2020.

11. Parsiev S.S. Algorithm optimization of the structure of telecommunication networks and the criteria of public transport.// DGU 20210. 16.04.21.

12. Parsiev S.S. Analysis of probabilistic and temporal characteristics of information streams in telecommunication networks.// DGU 20211. 16.04.21.

13. Oybek Djuraev, Utkir Khamdamov, Sabrina Muminkhodjaeva, Ulugbek Abdullaev, Khusniya Akhmedova. An In-Depth Analysis of Automatic Speech Recognition System. International Conference on Information Science and Communications Technologies (ICISCT). 3-5 Nov. 2021, DOI: 10.1109/ICISCT52966.2021.9670184, Date Added to IEEE Xplore: 17 January 2022.

14. Mirzayeva MB Calculation of the Time Characteristics of Computing Tools of Information Exchange Subsystems of Communication Networks with Considering Device Failure. International Conference on Information Science and Communications Technologies Applications, Trends and Opportunities: ICISCT 2022. Tashkent, 2022. – P.3.

15. Mirzayeva M.B. Port-Knocking Method For Enhancing Network Security. (Method Port Knocking for increasing network security). International Conference on Information Science and Communications Technologies Applications, Trends and Opportunities: ICISCT 2022. Tashkent, 2022. – P.3.

16. Mirzayeva M.B. Methods and means of building network security control centers in information and communication networks. Technical sciences #2 (2022) ISSN 2181-9696.

Huawei training class

111A - Teaching laboratory room

108A is a lecture training room