

Head of Department:

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History of the Department of Mobile Communication Technologies

The department of “Mobile Communication Technologies” has a rich history, starting with the formation of two departments - “Radio Communication Devices” and “Radio Engineering Systems” of the Tashkent Electrotechnical Institute of Communications, in 1960. Over the years, the work of the department has had its own development and reorganization. Subsequently, in 2008, these departments were merged into the Department of Radio Communication Devices and Systems.

The first head of the Department of Radio Communication Devices was senior lecturer Rashid Ibrahimovich Mansurov in the period 1960-1969.

Subsequently, the department was headed by candidates of technical sciences, associate professors Prakhov Viktor Ivanovich in the period 1969-1980, and Vasilyeva Margarita Georgievna in the period 1980-1993.

Since 1993, the head of the department “Radio Communication Devices” was Doctor of Physical and Mathematical Sciences, Professor, Academician of the Academy of Sciences of the Republic of Uzbekistan Telman Dadaevich Radjabov. He was an academician of the International Academy of Communications, the New York Academy and the San Francisco Industrial Academy, and the Association of Natural and Social Sciences.

Also, academician Telman Dadaevich Radjabov was the rector of the Tashkent Electrotechnical Institute of Communications from 1992 to 1998.

After the merger of the two departments “Radio Communication Devices” and “Radio Engineering Systems” in 2008, the head of the department was Doctor of Physical and Mathematical Sciences, Professor, Academician T.D. Radjabov. He headed the department until 2012.

Subsequently, from 2012 to 2017, the department was headed by candidate of technical sciences, associate professor Davronbekov Dilshod Abduzhalilovich.

From 2017 to 2020, the department was headed by candidate of technical sciences, associate professor Pulatov Sherzod Utkurovich.

From 2020 to 2023, the department was headed by PhD, associate professor Madaminov Khaidar Khudayarovich.

From May 2023, Ph.D. was reappointed as the head of the department. Associate Professor Pulatov Sh.U., and from December 29, 2024, PhD, Associate Professor Isroilov Zhamshid Dilshodovich was appointed head of the Department of Mobile Communication Technologies.

Over the years, associate professors Goldfeld L.N., Spirin V.Ya., Lisovsky V.A., Galiev A.L., Maslov A.V.,

Karimov R.K., Negrienko A. worked at the Department of Radio Communication Devices. G., Sazonov S.A., Chen A.L., Korsuntsev P.P., senior teachers Filgus Ya.E., Starikov A.G., Dyachenko I.P., Karelina E.V., Tsareva A.N., Morozova T.M., Baeva N.N., Tarasov A.V., Abdusagatov K.Kh., Kondashechkin A., Gigmatov Sh., Kuzmina G.N., who conducted lectures, laboratory and practical classes.

Subsequently, Professor Nasyrov M.Sh., Associate Professor Davronbekov D.A., senior teachers Candidates of Technical Sciences Khalikov F.Kh., Ni E.V., Sultanova M.O., Zhiltsova O.A. worked at the Department of Radio Communication Devices . and assistants Nazarov M.M., Mirkarimov D.Kh., Aripova U.Kh. and Akhmedova G.N.

Teachers of the Department of Radio Communication Devices were the first to prepare audio recordings of lectures and time diagrams explaining them, electrical diagrams, drawings, slides when organizing classes in disciplines using the modular and block method. Associate Professors Vasilieva M.G., Prakhov V.I., Goldfeld L.N. showed particular relevance in carrying out these works. and senior teacher Karelina E.V.

The Department of "Radio Communication Devices" in 1999 organized its branches at the Tashkent Television Tower and at the NPO "Academasbob" of ANRUz. The head of the branches was Candidate of Technical Sciences, Associate Professor Atamukhamedov M.B. and candidate of physical and mathematical sciences Kabilov A.K.

During 1993-2004, teachers and assistants Sh.U. Pulatov, D.A. Davronbekov, S. Abrosoy, F.Kh. Khalikov. and Imonkul M. defended their Ph.D. theses. In 2002, his doctoral dissertation was defended by Associate Professor of the Department Galiev A.L.

As for the Department of Radio Engineering Systems, it was organized in 1970. It separated from the Department of Radio Transmitting Devices, organized in 1960. At first, until 1986, it was called the Department of Radio Communications and Radio Engineering Systems and belonged to the Faculty of Multichannel Electrical Communications. Since 1986, it began to be called the department of "Radio communication devices and radio systems."

In 1996, it was transferred to the faculty of "Radio Communications, Broadcasting and Television" and was renamed "Radio Relay and Satellite Communication Systems".

Starting from the 2003-2004 academic year, the department was renamed "Radio Engineering Systems".

The heads of the department in 1970 - 1972 were associate professor V.I. Kazansky, senior lecturer S.A. Vasiliev. (1972 - 1974), associate professors Abramyan O.A. (1974 - 1977), Spirin V.Ya. (1977 - 1997) and since 1997, associate professor Ibraimov R.R.

In addition to the above-mentioned teachers, senior teachers worked at this department: Vuloyorgis A.I., Chizhevsky V.I., Belkind L.V., Mangeldina V.D., Kravchenko E.F., Rozhkov V.N.

Since 1974, the department has been replenished with candidates of sciences Ibraimov R.R., Dzhalolov I.K., Romanenko B.A. Since 1977, Yakubova U.M., Negrienko A.G., Levental M.Ya. began working. and Kuzmin A.P.

Since 2005, the department consisted of employees: associate professor Ibraimov R.R., senior teacher Vasiliev S.A., Belkind L.V., Kavilovova R.Yu., Khatamov A.P., Rakhmitdinov E.S., assistants Mirzaev D. .A., Madaminova Kh.Kh., Abdukayumova S.A., Tashmanova E.B. and laboratory assistant Martyshin M.

In 2004, under a grant from Motorola, the departments were equipped with a computer lab, in which

students also performed laboratory work in the disciplines they studied.

Teachers of the department carried out state budgetary and contractual research work. A special place among them is occupied by such topics as "The use of an artificial Earth satellite in the collection, processing and management of the water basin of the Aral Sea", "The problem of distribution of digital broadcasting and television programs through satellites", "Development and research of methods for remote measurement of the main characteristics of systems and channels connections." Based on the results of the research carried out, a number of scientific articles were published by Arslanov A.R. Leventhal I.Ya., Ph.D. theses defended.

In connection with the development of information technologies and the intensive development of mobile communications in the Republic of Uzbekistan, a need arose for qualified personnel in the field of wireless technologies, in particular mobile cellular communications. New areas of study were opened at the department, an educational and methodological complex for training specialists in mobile communications was prepared, and in 2013 the department was renamed "Mobile Communication Technologies".

In collaboration with leading companies and mobile communications industries "Uzmobile", "Unitel", "Coscom", training laboratories have been organized to study modern mobile communication systems and equipment 2G, 3G, 4G standards CDMA, GSM, WCDMA and LTE.

Currently, a new lecture hall and laboratories equipped with modern measuring equipment are being prepared for the study of wireless broadband systems and satellite communications.

Teachers of the Department of Mobile Communications Technologies provide guidance on final qualifying works for bachelors and dissertations for masters in current areas of mobile communications.

Employees of the department actively participate in scientific-technical and scientific-methodological conferences at the international and republican level.

SUBJECTS TEACHED AT THE DEPARTMENT

Bachelor's degree:

- Satellite communication
- Mobile communication
- Wireless broadband networks
- Radio frequency transmitting and receiving devices
- Radio transmitting and receiving devices in mobile communication systems
- Radio transmitting and receiving devices
- Digital signal processing in mobile communication systems
- Wireless Internet of Things systems
- Modern mobile communication technologies
- Design of mobile communication networks
- Mobile communication systems and technologies
- Wireless network

Master's degree:

- LTE technology
- Wireless Internet of Things
- Digital radio communication
- Space technology
- Satellite positioning and navigation systems.
- Design of nodes and devices of satellite communication systems
- Satellite systems and communication networks.
- Reliability of radio equipment
- Digital communication
- Radio relay and satellite communications
- Digital radio relay line
- GSM and mobile networks management
- Innovative telecommunication technologies 5G/6G.
- Satellite connection

Direction of the department:**Bachelor's degree**

5350100-Telecommunication technologies (Mobile systems)

Master's degree

70611701-Mobile communication systems

70611703-Satellite communication systems

PROFESSORAL AND TEACHING STAFF OF THE DEPARTMENT

- Isroilov J.D. head of the department
- Davronbekov D.A. Professor
- Pisetsky Yu.V. Professor
- Ibraimov R.R. assistant professor
- Pulatov Sh.U. assistant professor
- Sultonova M.O. assistant professor
- Aliyev U.T. Senior Lecturer
- Khatamov A.P. Senior Lecturer
- Alimdjanov Kh.F. Senior Lecturer
- Faizullaeva B.B. assistant
- Abdullayeva H.K. assistant
- Gafurov A.Sh. assistant
- Khaidaraliyeva Kh.F. trainee teacher

Part-time teachers

- Abdukadirov A.Kh. assistant professor
- Madaminov Kh.Kh. assistant professor
- Nazarov M. M. senior lecturer
- Shamsiyev A.S. Senior Lecturer
- Votinov K.A. assistant

Department partners:

- Joint Stock Company Uztelecom Center for Operation of Mobile Networks “Uzmobile”

- Limited Liability Company "Unitel"
- Limited Liability Company "Coscom"
- State Unitary Enterprise Center for Electromagnetic Compatibility
- Limited Liability Company Unicon.uz
- Limited Liability Company Bitel service

ADDITIONAL WORK WITH STUDENTS

In order to form and develop their desire for scientific research, to further expand their independent thinking skills, the "Young mobile engineer" circle was organized at the department.

The main goals and objectives of the circle are:

- consolidation of theoretical knowledge acquired by students through practical work;
- awakening students' interest in design and research and supporting their development;
- developing students' ability to think independently;

In this circle, students can work with technical means with great interest, make their own models and designs under the guidance of experienced mentors.

At the end of each academic year, students with their works actively participate in annual interfaculty competitions and exhibitions held at the university, and the most talented and gifted students also participate in republican exhibitions.

Also, the department annually carries out career guidance work with students of colleges and lyceums.

RESEARCH WORKS

The Department of Mobile Communication Technologies will carry out research work in the areas of cellular and satellite communications, open and linear optical communication lines, reliability of communication systems, as well as electromagnetic safety.

There are a number of published research papers such as:

1. Р.Р.Ибраимов, Д.А.Давронбеков, М.О.Султонова. Телекоммуникационные каналы связи на основе атмосферных оптических систем передачи в Республике Узбекистан: монография. - "Fan va ta'lim". - 2023. - 120 с.
2. Д.А.Давронбеков, З.Т.Хакимов, Ж.А.Арипов. Разработка методов и устройств повышения эффективности волоконно-оптических систем передачи информации // Монография. "Fan ziyosi". - Ташкент. - 2022. - 176 с.
3. Давронбеков Д.А., Матёкубов Ў.К. Мобиль алоқа тизимлари ишончилигини баҳолаш модел ва алгоритмлари // Монография. "Sadridin Salim Buxoriy" Durdona. Бухоро-2022. - 124 б.
4. Hotamov A. Madaminov H.X. "Radiomonitoring tizimida keng diapazondagi nurlanish manbalarini aniqlovchi antenna tizimini yaratish". Monografiya- T.: / TATU. Tashkent 2021.
5. Madaminov H.X., Nazarov A.M., Xotamov A. "Mobil aloqa stansiyasilaridan tarqaluvchi signal sathlarini binolarda taqsimlanishi". Monografiya - T.: / TATU. Tashkent 2021.
6. Давронбеков Д., Хакимов З. Методы улучшения спектральных характеристик волоконно-оптических систем передачи информации // Монография. "Yoshlar nashriyoti uyi". Ташкент-2020. - 112 с.
7. Раджабов Т.Д., Назаров А.М., Камардин А.И., Симонов А.А., Пулатов Ш.У. Вакуумные и фотонные технологии создания рельефных, композиционных и экранирующих покрытий. Монография. Т.: Изд. «Тафаккур», 2019 г. -135 с.
8. Д.А.Давронбеков, Абдурахманов К.П., Султонова М.О., Исроилов Ж.Д., Кириакиди А.С.

Идентификация мобильных устройств по IMEI // Монография. ТУИТ, Ташкент – 2019. – 108 с.

9. Раджабов Т.Д., Назаров А.М., Симонов А.А, Камардин А.И. Технические средства и вакуумные технологии защиты документов и изделий от фальсификации. Т.: ТГТУ, 2018.-126 с.
10. Д.А.Давронбеков “Методы оценки надёжности цифровых элементов радиотехнических систем” / Монография. ТУИТ, Ташкент – 2017г. –168 с.

EDUCATIONAL AND METHODOLOGICAL WORK OF THE DEPARTMENT

The educational and methodological base of the department of “Mobile Communication Technologies” consists of textbooks, teaching aids, teaching aids published by professors of the department.

1. Давронбеков Д.А., Тзанова С.С., Пулатов Ш.У. Учебник «Спутниковые системы позиционирования и навигации». Prepare for publication.
2. Давронбеков Д.А., У.Т.Алиев. «Беспроводные системы IoT». Prepare for publication.
3. Писецкий Ю.В. Учебник Спутниковая связь Часть I. - Т.: “Aloqachi”. -2023. - 305 с.
4. Писецкий Ю.В., Назаров А.М., Пулатов Ш.У., Мадаминов Х.Х., Вотинов К.А. Учебное пособие для проведения практических занятий по дисциплине Спутниковая связь. - Т.: “Aloqachi”. -2023. - 190 с.
5. X. Madaminov, Y.V. Pisetskiy, U.T. Aliev, M.O. Sultonova. “Mobil aloqa” fanidan darslik. - Т.: “Aloqachi”. -2023. - 252 с.
6. Д.А.Давронбеков “Надёжность радиотехнических систем учебник” Т.: “Tafakkur tomchilari”. – 2021. – 192 с.
7. Ибраимов Р.Р., Пулатов Ш.У., Хатамов А.П., Мадаминов Х.Х., Хакимов З.Т. Учебник по курсу «GSM и управление мобильностью». Для специальности 5A350901 –Мобильные системы связи / ТУИТ. Ташкент 2021. 216 с.
8. Madaminov H.X., Ibraimov R.R., Khatamov A.P., Khotamov A., Hakimov Z.T. “GSM va mobillikni boshqarish”. Darslik, - Т.: TATU. Tashkent 2021.-188 b.
9. A.Davronbekov, Sh.U.Pulatov, U.T.Aliyev, Yu.V.Pisetskiy. Mobil aloqa tizimlarining uzatish va qabul qilish qurilmalari / darslik. : “Aloqachi”. – 2020. – 210 b.
10. Davronbekov, M.Sultonova. Yangi avlod kuchaytirgichlarining texnika va texnologiyasi / o’quv qo’llanma. Т.: “Aloqachi”. – 2020. – 160 b.
11. Davronbekov, U.T.Aliyev. “Teleradioeshittirishda uzatish va qabul qilish qurilmalari” darslik. Т.: “Aloqachi”. – 2019. – 256 b.
12. А.Давронбеков, У.Т.Алиев “ Передающие и приёмные устройство в телерадиовещании / учебник.” Т.: “Aloqachi”. – 2019. – 266 с.
13. Р.Ибраимов, Д.Давронбеков, Ш.У.Пулатов, А.П.Хатамов. Спутниковые системы связи и приложения / учебное пособие Т.: “Aloqachi”. – 2018. 365 с.
14. Ibraimov, D.A.Davronbekov, M.O.Sultonova, E.B.Tashmanov, U.T.Aliyev. Simsiz aloqa tizimlari va dasturlari (1-qism) / darslik. - Т.: “Aloqachi”. – 2018. – 216 b.
15. Xalikov, D.A.Davronbekov, J.F.Kurbanov. Raqamli mobil aloqa vositalari / darslik. - Т.: “O’zbekiston faylasuflari milliy jamiyati” nashriyoti. - 2018. – 556 b.
16. Abduqodirov, D.A.Davronbekov. Mobil baylanis sistemalarinin 4G avladi / o’quv qollana. - Т.: “Aloqachi”. – 2018. - 344 b.
17. Davronbekov, Sh.U.Pulatov, M.O.Sultonova, U.T.Aliyev, E.B.Tashmanov. “Simsiz keng polosali texnologiyalar” / darslik. - Т.: “Aloqachi”. – 2018. – 304 b.
18. Ibraimov, D.A. Davronbekov, E.B. Toshmanov, Y.V. Pisetskiy “Simsiz aloqa tizimlari va dasturlash” (1-qism), Darslik. Т.: “Aloqachi” – 2017-234 b.
19. Р.Ибраимов, Д.Давронбеков, Э.Б.Тошманов, Ю.В.Писецкий. “Системы беспроводной связи и программирование (част 1)/ учебное пособие. - Т.: “Aloqachi”. - 2017. - 234 с.
20. Abduqodirov, D.Davronbekov. Mobil aloqa tizimlarining 4G avlodi / o’quv qo’llanma. - Т.: “O’quv-

ta'lim metodika" DUK. - 2015 .- 328 b.

TOPICS OF CANDIDATE AND DOCTORAL DISSERTATIONS DEFENDED AT THE DEPARTMENT

1. Матёкубов Уткир Каримович. "Разработка моделей и алгоритмов оценки надежности систем мобильной связи" в 2021 г. Кандидатская диссертация по специальности: «05.04.02 Радиотехника, радионавигация, радиолокация, телевизионные системы и устройства. Мобильные волоконно-оптические системы связи». Научный руководитель, доктор технических наук, профессор Давронбеков Д.А.
2. Хакимов Зафар Тулаганович. "Методы и устройства повышения эффективности волоконно-оптических систем передачи данных" в 2021 г. Диссертация кандидата технических наук по специальности: «05.04.02 Радиотехника, радионавигация, радиолокация, телевизионные системы и устройства. Мобильные волоконно-оптические системы связи». Научный руководитель, доктор технических наук Давронбеков Д.А.
3. Исраилов Джамшид Дильшодович. "Разработка алгоритмов идентификации и регистрации устройств мобильной связи" в 2020 г. Кандидатская диссертация по специальности: «05.04.02- Радиотехника, радионавигация, радиолокация, телевизионные системы и устройства. Мобильные волоконно-оптические системы связи». Научный руководитель, доктор технических наук Давронбеков Д.А.
4. Мадаминов Хайдар Худаярович. "Прогнозирование распределения уровней поля базовых станций мобильной связи внутри помещений" 2019 г. Кандидатская диссертация по специальности: «05.04.02 Радиотехника, радионавигация, радиолокация, телевизионные системы и устройства. Мобильные волоконно-оптические системы связи». Научный руководитель, доктор технических наук Назаров А.М.
5. Писецкий Юрий Валерьевич. "Методы и устройства дистанционного мониторинга" в 2018 г. Докторская диссертация по специальности: «05.04.02- Радиотехника, радионавигация, радиолокация, телевизионные системы и устройства. Мобильные волоконно-оптические системы связи». Научный руководитель, доктор технических наук, профессор Арипов Х.К.
6. Джаилилов Музаффар Мухитдинович. "Система цифровой обработки телевизионных изображений для мониторинга обнаружения и распознавания статика-пространственных объектов" в 2017 г. Кандидатская диссертация по специальности: «05.04.02- Радиотехника, радионавигация, радиолокация, телевизионные системы и устройства. Мобильные волоконно-оптические системы связи». Научный руководитель, доктор технических наук, академик Раджабов Т.Д.

GRANTS OF THE DEPARTMENT

1. Давронбеков Д.А. № 1506/21Ф "Модели и методы повышения надежности высокоскоростных сетей передачи данных" на сумму 425 млн. от АК «Узбектелеком».
2. Давронбеков Д.А. Учебно-научно-исследовательская лаборатория "СПУТНИКОВОЙ СВЯЗИ".
3. Давронбеков Д.А. Создание программного продукта для выявления дубликатов и клонов мобильных устройств.

CERTIFICATES FOR SOFTWARE PRODUCTS OF THE DEPARTMENT (DGPU)

1. Давронбеков Д.А., Хакимов З.Т., Писецкий Ю.В., Турсунов Б.Б., Иргашев Р.Ю. Программа ЭВМ: Свидетельство о депонировании объектов интеллектуальной собственности № 1681 электронного депозитария autor.uz. 10.01.2014. «Calculation of REA software reliability»

2. Votinov Kirill Alekseyevich, Yo'ldoshev Jaloliddin Fayzulla o'g'li, Pulatov Sherzod Utkurovich, Matyaqubov Bobur Kutlimurat o'g'li, Pisetskiy Yuriy Valerevich. «Maishiy chiqindilarni monitoring qilish uchun dastur». DGU 27720. 21.09.2023.
3. Давронбеков Д., Матёкубов Ў.К. Надежность системы BTS-BSC с различными видами линий связи между ними / Свидетельство об официальной регистрации программы для электронно-вычислительных машин №DГУ 09101, 29.09.2020.
4. Давронбеков Д.А., Хакимов З.Т., Исроилов Д.Д., Давронбеков Н.Д. Расчет топологии эквидистантного неаподизованного фильтра на поверхностно-акустических волнах / Свидетельство об официальной регистрации программы для электронно-вычислительных машин №DГУ 09706, 14.12.2020.
5. Давронбеков Д.А., Матёкубов Ў.К. Расчет живучести сети мобильной связи. Ситуация 2 / Свидетельство об официальной регистрации программы для электронно-вычислительных машин №DГУ 10181, 09.02.2021.
6. Давронбеков Д.А., Матёкубов Ў.К. Расчет живучести сети мобильной связи. Ситуация 1 / Свидетельство об официальной регистрации программы для электронно-вычислительных машин №DГУ 10182, 09.02.2021.
7. Давронбеков Д.А., Хакимов З.Т., Исроилов Д.Д., Ахмедов Б.И., Давронбеков Н.Д. Расчет геометрических размеров фильтров на ПАВ / Свидетельство об официальной регистрации программы для электронно-вычислительных машин №DГУ 10183, 09.02.2021.
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