

Discipline annotation

Документ подписан простой электронной подписью Информация о владельце: ФИО: Петренко Вячеслав Иванович Должность: и.о. директора Института цифровой радиоэлектроники Дата подписания: 03.07.2023 10:22:36 Уникальный программный ключ: b47f96ee65a16e179f94dbf7fb0b10000e7ad4d	
Discipline name	Защита информации в системах беспроводной связи / Information security in wireless communication systems
Summary	Classification and features of wireless communication systems. Типы сетей беспроводного абонентского радиодоступа и методы многоканального доступа. Code division of subscriber radio access channels. Optical wireless communication. Laser and infrared systems of wireless communication. Organization and planning of wireless networks. Wireless network security threats. Wireless network security standards. Authentication in wireless networks. Technologies for the integrity and confidentiality of transmitted data
Learning outcomes of the discipline	- determines the ways of monitoring the operation of wireless communication means of telecommunication networks and their protection against unauthorized access to information - manages the operation of the secured wireless communication means of telecommunication networks in any modes of operation
Workload, c. u.	3 c. u.
Reporting Forms	Graded - 7th semester
List of essential and supplementary literature necessary for mastering the discipline	
Essential literature	1. Proletarsky, A. V. Wireless Wi-Fi networks: a tutorial / Proletarsky A. V. - Moscow: Internet University of Information Technologies (INTUIT), 2016. - 284 p. 2. Noskova, N. V. Standards of wireless telecommunication networks: Textbook / Noskova N. V. - Novosibirsk: Siberian State University of Telecommunications and Informatics, 2012. - 201 p.
Supplementary literature	1. Goldsmith A. Wireless communications. Fundamentals of the theory and technology of wireless communication. – M.: Technosfera, 2011. – 904 p. 2. Boccuzzi J. Signal processing for wireless communication / J. Boccuzzi; transl. from English by Yu. L. Tsvirko; ed. by V. I. Borisov. – M.: Technosfera, 2012. – 672 p. 3. Arslan H., Chen Ch. N., Bendetto M. D. Ultrawideband wireless communication. – M.: Technosfera, 2012. – 640 p. 4. Balanis K. A. Introduction to smart antennas / K. A. Balanis, P. I. Ioanides; transl. from English by K.V. Yudintsev; ed. by V. V. Popov, M. D. Parnes. – M.: Technosfera, 2012. – 200 p. 5. Kartashevsky V. G. Mobile communication networks / Kartashevsky V. G., Semenov S. N., Firstova T. V. - M: Ecotrends. – 2001. 296 p. 6. Ratynsky M. V. Fundamentals of cellular communications / Ed. by D. E. Zimin. - 2 nd ed., updated and revised. - M: Radio I svyaz, 1998. - 248 p. 7. Greenfield David. Optical networks. The Essential Guide to Optical Networks. - M: BHV - Petersburg 2002. - 256 p. 8. Katunin G. P. Mamchev G. V. Popantonopulo V. N. Shuvalov V. P. Telecommunication systems and networks: Study guide. Volume 2. - Radio communication, broadcasting, television / Knunin G. P., Mamchev G. V., Popantonopulo V. N., Shuvalov V. P.; ed. by Shuvalova V. P. - Ed.2 nd , revised and enlarged. - M: Goryachaya linia - Telecom, 2014. - 672 p.