

Документ подписан простой электронной подписью
 Информация о владельце:
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 Должность: и.о. директора Института цифрового развития
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Discipline annotation

Discipline name	Защита информации от утечки по техническим каналам / Information protection from leakage via technical channels
Summary	Methods, means and ways to protect information from leakage due to side electromagnetic radiation and pickup. Prevention of information leakage through technical channels by filtering information signals and TEMPEST noise. Energy methods and means of protection of allocated premises. Methods and means of protecting telephone lines and auxiliary technical means and systems. Methods and means of informational concealment of speech information. Means of detecting electronic eavesdropping devices: scanning receivers and spectrum analyzers, software and hardware control systems. Means of detecting electronic eavesdropping devices: non-linear locators, metal detectors, void detectors and X-ray machines. The study of the acoustic channel of information leakage created by the method of high-frequency imposition. Fundamentals of modeling the system of technical protection of information. Documenting the results of certification tests of the informatization object as per the requirements for information security.
Learning outcomes of the discipline	- demonstrates knowledge of regulatory legal acts, normative and methodological documents of the Federal Security Service of the Russian Federation, the Federal Service for Technical and Export Control regarding the protection of information of limited access; -analyzes regulatory legal acts, normative and methodological documents of the Federal Security Service of the Russian Federation, the Federal Service for Technical and Export Control regarding the protection of information of limited access; - operates with regulatory legal acts, normative and methodological documents of the Federal Security Service of the Russian Federation, the Federal Service for Technical and Export Control regarding the protection of information of limited access; - organize the protection of restricted information in solving professional problems in accordance with regulatory and methodological documents of the Federal Security Service of the Russian Federation, the Federal Service for Technical and Export Control; - chooses measures for the protection of restricted information in solving professional problems in accordance with regulatory and methodological documents of the Federal Security Service of the Russian Federation, the Federal Service for Technical and Export Control; - takes part in organization of the protection of restricted information in solving professional problems in accordance with regulatory and methodological documents of the Federal Security Service of the Russian Federation, the Federal Service for Technical and Export Control; - operates with knowledge of means of cryptographic and technical protection of information through technical channels; - evaluates the means of cryptographic and technical protection of information through technical channels; - analyzes the means of cryptographic and technical protection of

	information through technical channels; - chooses means of cryptographic and technical protection of information to solve professional tasks; - identifies means of cryptographic and technical protection of information to solve professional tasks; - applies means of cryptographic and technical protection of information to solve professional tasks.
Workload, c. u.	5c. u.
Reporting Forms	Graded credit - 6th semester
List of essential and supplementary literature necessary for mastering the discipline	
Essential literature	1 Technical means and methods of information protection: textbook / ed. by A. P. Zaitseva, A. A. Shelupanov. - [4 th ed., Rev. and enlarged]. - Moscow: Goryachaya linia-Telecom, 2016. - 616 p. 2. Khorev A. A. Technical protection of information: study guide for university students. In 3 volumes - M.: SPC "Analytics", 2018.
Supplementary literature	1 Ivanov, A. V. Protection of speech information from leakage through acoustoelectric channels / A. V. Ivanov; V. A. Trushin. - Novosibirsk: NSTU, 2012. - 43 p. - ISBN 978-5-7782-1888-8 2 Titov, A. A. Engineering and technical protection of information: Textbook / Titov A. A. - Tomsk: Tomsk State University of Control Systems and Radioelectronics, 2010. - 197 p. - The book is in the basic version of IPRbooks ELS.