

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	Техническая защита информации / Technical protection of information
Summary	Place of technical protection of information in the state system of information
	protection in the Russian Federation. Characteristics of information and information processes as a technical subject. Terms, definitions and fundamentals of methodology in the field of technical protection of information. Characteristics of technical channels of information leakage arising due to side electromagnetic radiation and pickup. Characteristics of information security threats in automated information systems. Specially created electronic technical channels for information leakage. Modeling and research of technical channels of information leakage arising due to side electromagnetic radiation and pickup. Acoustic channels of speech information leakage. Composite acoustic channels of speech information leakage. Methods and means of intercepting speech information transmitted over communication channels. Study of methods and principles of construction and operation of technical means of eavesdropping on acoustic (speech) information.
Learning outcomes of the discipline	- formulates the essence of conducting experiments according to a given methodology and processing their results; - identifies appropriate methods for conducting experiments; - demonstrates confident use of procedures for processing the results of experiments. - demonstrates the ability to conduct experiments according to a given methodology and process their results; - confidently chooses the given methods of conducting experiments; - applies methods of processing the results of experiments - demonstrates understanding of the essence of the analysis of the functional process at the protected object and its information components; - formulates the essence of the analysis of the functional process at the protected object and its information components; - handles the concepts of the analysis of the functional process at the protected object and its information components - identifies possible sources of information threats, their possible goals, ways of realization and expected damage; - analyzes possible sources of information threats, their possible goals, ways of realization and expected damage; - handles the concepts of possible sources of information threats, their possible goals, ways of implementation;
Workload, c. u.	3c. u.
Reporting Forms	Graded test - 5th 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. - [4th ed., Rev. and enlarged]. - Moscow: Goryachaya linia-Telecom, 2016. 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.
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