

Документ подписан простой электронной подписью
Информация о владельце:
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Discipline abstract

Discipline name	Физические основы защиты информации / Physical fundamentals of information security
Summary	Physical fields of objects and problems of information security. Fundamentals of the theory of the physical field: elements of field theory and wave processes. electromagnetic phenomena. Electric, magnetic and electromagnetic fields of objects. Radiation, propagation and registration of electromagnetic fields (waves). Parasitic processes in electrical circuits of radio-electronic means. Screening of fields of electromagnetic nature. Generation of electromagnetic oscillations. modulation and demodulation. Spatial and frequency selection. Characteristics of sound wave processes. Room acoustics. Physical foundations of acoustics of speech and hearing. Physical effects of acoustoelectric, acousto-optical and optical-electrical transformations.
Learning outcomes of the discipline	- operates with the concepts of information security control procedures; - understands information security control procedures; - selects procedures for monitoring the security of information
Workload, c. u.	3 c. u.
Reporting Forms	Graded test– 3rd semester
The list of basic and additional literature necessary for the development of disciplines	
Essential literature	1. Sheydakov, N.E. Physical foundations of information security: a tutorial / N.E. Sheidakov, O.V. Serpeninov, E.N. Tishchenko. - Moscow: RIOR: INFRA-M, 2022. - 204 p. 2. K. M., Petrenko V.I., Chipiga A.F. Izd. 2nd rev. and additional - St. Petersburg: Information Center Intermedia, 2018. - 408 p.
Supplementary literature	Kharchenko, E.A. Physical foundations of information security: Textbook / E.A. Kharchenko, Moscow State Industrial University. – M.: Publishing House of MGIU, 2011.