Документ подписан простой электронной подписью
Информация о владельце:
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Discipline annotation

Discipline name	**Безопасность операционных систем / Operation systems security**
Summary	General characteristics of operating systems; purpose and capabilities of UNIX clone systems, Windows group systems; OS interface with users; dialogue and batch interfaces; resource management; processor management; memory management; device management; external device drivers; file systems; program management: the concept of a program, the organization of dynamic and static calls, the interaction of the OS with programs and debuggers; virtual programs; process management: process states, process synchronization, messaging, scheduling strategies and disciplines, resource inheritance, deadlocks, exception handling, saving and restoring processes; organization of access control and protection of OS resources; main security mechanisms: means and methods of authentication in the OS, access control models, organization and use of audit tools; OS administration: tasks and principles of system software maintenance, generation, configuration, performance measurement and modification of systems, OS security management; basic OS standards.
Learning outcomes of the discipline	- able to monitor the operation of communication means of telecommunication networks, protection of facilities and communication means of telecommunication networks against unauthorized access - able to manage the operation of communication means of telecommunication networks, protection of facilities and communication means of telecommunication networks against unauthorized access - able to administer the information security systems of automated systems
Workload, c. u.	3 c. u.
Reporting Forms	Exam - 5th semester
List of essential and supplementary literature necessary for mastering the discipline	
Essential literature	1. Martemyanov Yu. F. Yakovlev Al. V. Yakovlev An. V. Operating Systems. Concepts of building and ensuring security. – Goryachaya linia - Telecom", 2013 http://e.lanbook.com/ 2. Olifer, V. G. Network operating systems / V. G. Olifer, N. A. Olifer. - 2nd ed. - St. Petersburg. [et al.] : PITER, 2013. - 668 p.
Supplementary literature	1. Stallings V. Operating systems. - M.: "Williams" Publishing house, 2014 2. Linux kernel in the comments. S. Maxwell; transl. from English. - K.: "DiaSoft", 2015. 3. Gordeev, A. V. Operating systems: textbook / A. V. Gordeev. - 2nd ed. - St. Petersburg. [and others]: Piter, 2014. - 415 p.