Документ подписан простой электронной подписью
Информация о владельце:
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Discipline annotation

Discipline name	**Аппаратные средства вычислительной техники / Computer hardware**
Summary	Subject and content of the discipline. Fundamentals of construction and operation of computers and systems. Functional and structural organization of computers and systems. Execution of programs in a computer. Software. Architectural features and organization of various classes of computers operation. Computer networks. Hardware and software of networks. Structure and organization of local networks operation. Structure and organization of corporate networks operation. Structure and organization of global networks operation. Structure and characteristics of telecommunication systems. Computer systems security. Efficiency of operation of computing systems, networks and telecommunications. Prospects for the development of computing systems
Learning outcomes of the discipline	- performs installation, configuration and maintenance of hardware and software for collecting, transmitting, processing, storing and protecting information, including of domestic production; - diagnoses and eliminates malfunctions and incorrect operation of hardware and software.
Workload, c. u.	3c. u.
Reporting Forms (including by semester)	Graded Test- 4th semester
List of essential and supplementary literature necessary for mastering the discipline	
Essential literature	1. V. L. Broido Computing systems, networks and telecommunications: a textbook for universities / V. L. Broido, O. P. Ilyina. - St. Petersburg: Piter, 2013. - 560 p. 2. Pyatibratov, A. P. Computing systems, networks and telecommunications: study guide /A. P. Pyatibratov, L. P. Gudyno, A. A. Kirichenko; ed. by A.P. Pyatibratov. – M.: Knorus, 2013. – 376 p. 3. Shevchenko, V. P. Computing systems, networks and telecommunications /V. P. Shevchenko. – M.: Knorus, 2014. – 288 p.
Supplementary literature	1. Tanenbaum E. Computer architecture. - St. Petersburg: Piter, 2015.-704s. 2. Hartov, V. Ya. Microprocessor systems: study guide / V. Ya. Khartov. - Moscow: Academia, 2013. - 350 p. 3. Maksimov N. V. Architecture of computers and computing systems: textbook, 3rd ed., revised and enlarged / N. V. Maksimov, I. I. Popov, T. P. Partyka. – M.: Forum, 2014. – 512 p. 4. Zhmakin, A. P. Computer architecture. 2nd ed. / A. P. Zhmakin. - St. Petersburg: BHV, 2014. - 352 p. 5. Orlov S. A. Organization of computers and systems / S. A. Orlov, B. Ya. Tsilker. - St. Petersburg: Piter, 2015. - 688 p. 6. Laura, A. TCP / IP: training course / A. Laura, L. Cheppel, E. Tittel; transl. from English. - St. Petersburg: BHV - Petersburg, 2013. - 976 p. 7. Chekmarev, Yu. V. Computing systems, networks and telecommunications, 2nd ed., revised and enlarged / Yu. V. Chekmarev. – M.: DMK Press, 2015. – 184 p.