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	**Метрология, стандартизация, сертификация / Metrology, standardization and certification**
Summary	The main tasks of ensuring the unity and accuracy of measurements in accordance with the law of the Russian Federation. The concept of metrological support. Methods and means of ensuring the unity and accuracy of measurements. Normalized metrological characteristics, sources of errors of measuring instruments. Calculation of measurement errors. Methods for measuring electrical quantities. Measures of basic electrical quantities. Principles of operation of measuring instruments. Technical measurements. Principles of construction of digital measuring instruments; analog-to-digital and digital-to-analog converters. Principles of construction and features of measuring instruments for basic electrical and radio engineering quantities. Basic principles and methods of standardization. General information about the state certification system. Organizational certification base. Objects of certification. Features of certification in the field of information security.
Learning outcomes of the discipline	- carries out measurements related to the control of information security against leakage due to side electromagnetic radiation and pickup, all parameters of radiation - selects measuring instruments of any physical quantities to control the security of information from unauthorized access
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. Lifits I. M. Standardization, metrology and certification: textbook. - M.: Yurayt, 2015. - 434 p. 2. Metrology and radio measurements. Textbook for universities / V. I. Nefedov, V. I. Khahin, V. K. Bityukov et al./ Ed. by professor V. I. Nefedov. - M.: Vysshaya shkola, 2016. - 526 p. 3. Metrology and electroradio measurements in telecommunication systems / V. I. Nefedov, V. I. Khahin, V. K. Bityukov and others / Ed. by professor V. I. Nefedov. – M.: Vysshaya shkola, 2014. – 340 p. 4. Metrology, standardization, certification and electrical measuring equipment: Textbook / K. K. Kim, G. N. Anisimov, V. Yu. Barbarovich, B. Ya. Litvinov - St. Petersburg: Piter, 2016. - 250 p.
Supplementary literature	1. Tartakovsky D. F., Yastrebov A. S. Metrology, standardization and technical measuring instruments. – M.: Vysshaya shkola, 2013. 560 p. 2. Snytnikov A. A. Licensing and certification in the field of

	information security. - M.: Helios ARV, 2013. - 192 p. 3. Radkevich, Ya. M. Metrology, standardization and certification: [textbook] / Ya. M. Radkevich, A. G. Skhirtladze, B. I. Laktionov. - 4th ed., reprint - M.: Vysshaya shkola, 2010. - 791 p.: ill.