Документ подписан простой электронной подписью
Информация о владельце:
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**Discipline annotation**

| Discipline name | **Сети и системы передачи информации / Information transmission networks and systems** |
|---|---|
| Summary | Fundamentals of the theory of transmission and coding of messages. Introduction to signal theory.<br>Methods of analog-to-digital and digital-to-analog conversion of signals.<br>Principles of digital transmission of information.<br>Interference in information transmission channels.<br>Regeneration of discrete digital signals. Coding in information transmission systems.<br>Adaptation methods in information transmission systems.<br>Fundamentals of building systems and networks for information transmission.<br>Wired and cable systems of information transmission.<br>Principles of construction of wireless systems of information transmission.<br>Principles of wireless communication.<br>Principles of construction of computer networks.<br>Reference model of open systems interaction. Principles of switching, multiplexing and routing in information transmission networks. |
| Learning outcomes of the discipline | - evaluates all modes of operation of networks and information transmission systems using hardware and software |
| Workload, c. u. | 4c. u. |
| Reporting Forms | Exam - 5th semester |
| **List of essential and supplementary literature necessary for mastering the discipline** | |
| Essential literature | 1. Akulinichev Yu. P. Radio engineering systems of information transmission / Electronic source: textbook / A. S. Bernhardt / Yu. P. Akulinichev. - Tomsk: Tomsk State University of Control Systems and Radioelectronics, 2015. - 195 p. - The book is in the basic version of IPRbooks ELS, Unlimited copies<br>2. Akulinichev, Yu. P. Theory and technology of information transmission: textbook / Yu. P. Akulinichev, A. S. Bernhardt. - Tomsk: Tomsk State University of Control Systems and Radioelectronics, 2012. - 209 p.: illustrations, tables, diagrams. - http://biblioclub.ru/. - ISBN 978-5-4332-0035-7, unlimited copies |
| Supplementary literature | 1. Information technologies: textbook / Yu. Yu. Gromov, I. V. Didrich, O. G. Ivanova, and others; Ministry of Education and Science of the Russian Federation; Federal State Budgetary Educational Institution of Higher Professional Education "Tambov State Technical University". - Tambov: Publishing house of TSTU, 2015. - 260 p.: illustrations, tables, schemes. - http://biblioclub.ru/. - Bibliography in the book. - ISBN 978-5-8265-1428-3, unlimited copies<br>2. Dushin, V. K. Theoretical foundations of information processes and systems: textbook / V. K. Dushin. - 5th ed. - Moscow: Publishing and Trade Corporation "Dashkov and |

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| | Co", 2016. - 348 p.: ill. - http://biblioclub.ru/. – Bibliography in the book. - ISBN 978-5-394-01748-3, unlimited copies |