

Discipline (module) annotation

Искусственный интеллект и машинное обучение / Artificial intelligence and machine learning	
Discipline name	Introduction to intelligent systems.
Summary	Basic concepts of systems based on knowledge. Development of expert systems. Definition and structure of knowledge engineering. Systems with a natural language interface. Self-learning systems. Adaptive systems. Software products for the development of intelligent systems. Intelligent Internet technologies.
Learning outcomes of the discipline (module)	- determines the criteria for analytical tasks, the solution of which is preferable using machine learning technologies - justifies the use of one or another machine learning algorithm for solving a specific problem - masters the skills to develop software, models and algorithms for artificial intelligence and machine learning
Workload, c. u.	3 c. u.
Reporting Forms	Graded - 4th semester
List of essential and supplementary literature necessary for mastering the discipline	
Essential literature	1. Intelligent information systems and technologies / Yu. Yu. Gromov. - Tambov: Publishing house of TSTU, 2013. - 244 p. - ISBN 978-5-8265-1178-7 2. Matveev M. G. Models and methods of artificial intelligence. Application in the economy / M. G. Matveev; A. S. Sviridov; N. A. Aleinikova. - Moscow: Finansy I statistika, 2011. - 448 p. - ISBN 978-5-279-03279-2 3. Palmov S. V. Intelligent systems and technologies / Electronic resource: textbook / S. V. Palmov. - Samara: Volga State University of Telecommunications and Informatics, 2017. - 195 p. - The book is in the basic version of IPRbooks ELS.
Supplementary literature	1. Averchenkov V. I. The system of knowledge formation in the Internet environment: Monograph / Averchenkov V. I. - Bryansk: Bryansk State Technical University, 2012. - 181 p. - The book is in the basic version of IPRbooks ELS. - ISBN 5-89838-328-X 2. Bogomolova M. A. Expert systems (engineering and design technology) Electronic source: teaching aid / M. A. Bogomolov. - Samara: Volga State University of Telecommunications and Informatics, 2015. - 47 p. - The book is in the basic version of IPRbooks ELS. 3. Sotnik S. L. Designing artificial intelligence systems / Electronic source: textbook / S. L. Sotnik. - Designing artificial intelligence systems, 2021-01-23. - Moscow: Internet University of Information Technologies (INTUIT), 2016. - 228 p. - The book is in the basic version of IPRbooks ELS. 4. Yasnitsky L. N. Introduction to artificial intelligence: a textbook for university students enrolled in mathematics courses and specialties / L. N. Yasnitsky. - 3rd ed., reprint. - M.: Academia, 2010. - 176 p.: ill. - (Higher professional education. Informatics and computer technology). - Bibliography: pp. 170-173. - ISBN 978-5-7695-7042-1.