

Документ подписан простой электронной подписью
 Информация о владельце:
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Discipline annotation

Discipline name	Инженерная и компьютерная графика / Engineering and Computer Graphics
Summary	General information about engineering and computer graphics. Types and scope of computer graphics. Graphic data storage formats Technical means of computer graphics. Hardware implementation of graphics functions. Graphic processors Normative base of graphic systems. Projection methods. Central and parallel projection. Types and kinds of schemes in engineering graphics. Structural, functional and circuit diagrams. Conditional graphic symbols in electrical circuits. Conditional graphic designations in schemes of computer engineering. Specifications and rules for their design. Classification of computer-aided design systems. "Compass 3D" Graphic editor as a means of an interactive method of automating drawing and design work. AutoCAD computer-aided design systems. Trends in the construction of modern graphic systems.
Learning outcomes of the discipline	- fully analyzes structural and functional flowcharts of a secure automated system - fully complies with the requirements of the AS operational documentation
Workload, c. u.	4 c. u.
Reporting Forms	Exam - 3th semester
List of essential and supplementary literature necessary for mastering the discipline	
Essential literature	1 Konakova, I. P. Engineering and computer graphics . Electronic source: Textbook for free software / I. P. Konakova, I. I. Pirogova; ed. T. V. Meshchaninova. - Engineering and computer graphics, 2029-09-11. - Saratov, Yekaterinburg: Vocational education, Ural Federal University, 2019. - 89 p. - The book is in the premium version of EBS IPR BOOKS. - ISBN 978-5-4488-0449-6, 978-5-7996-2861-1, unlimited copies 2 Samoilova, E. M. Engineering computer graphics Electronic resource: Textbook for secondary vocational education institutions / E. M. Samoilova, M. V. Vinogradov. - Saratov: Vocational Education, IPR Media, 2019. - 108 p. - The book is in the premium version of IPR BOOKS ELS. - ISBN 978-5-4488-0428-1, 978-5-4497-0228-9, unlimited copies
Supplementary literature	Kuryachaya, E. A. Engineering and computer graphics / Electronic source / Kuryachaya E. A., Oleinik O. V.: Study guide. - Omsk: Omsk State Agrarian University, 2020. - 119 p. - ISBN 978-5-89764-860-3, unlimited copies