

DISCIPLINE DESCRIPTION
Basic Computer System Architecture

1	Specialized module	Basic Computer System Architecture
2	Specialty	1-26 03 01 "Information Resources Management"
3	Course of Study	1
4	Semester	1
5	Credit units	3
6	Degree, title, full name of lecturers	PhD in Engineering Sciences, Associate Professor Serebryanaya L.
7	Objectives	<p>Acknowledgement with basic information about the architecture and principles of operation of modern and advanced computing systems, the main architecture of computing systems, its construction and functioning principles; the development of computing systems architecture.</p> <p>Development of skills and abilities of comparative analysis of the qualitative and quantitative characteristics of various types of computer systems; of knowledge application of the basics of computing systems in solving problems emerged.</p>
8	Prerequisites	Computer system architecture, software
9	Syllabus	<p>The subject is hardware and software of computer systems.</p> <p>Description of its composition, principle of operation, configuration and interconnection of the main nodes at a certain level of presentation. Description of the user's programming and interface capabilities, command set, memory organization and addressing system, input-output and control operations.</p>
10	References	<p>1. Колдаев, В.Д. Архитектура ЭВМ: Учебное пособие / В.Д. Колдаев, С.А. Лупин. - М.: Форум, 2017. - 159 с.</p> <p>2. Сенкевич, А.В. Архитектура ЭВМ и вычислительные системы: Учебник / А.В. Сенкевич. - М.: Academia, 2017. - 896 с.</p>
11	Teaching Methods	Explanatory-illustrative, reproductive, partial-research, comparative, problematic, dialogue-heuristic, research, generalizing, analytical.
12	Tuition Language	Russian