

**DISCIPLINE DESCRIPTION**  
**“Fundamentals of programming technologies”**

1	Specialized module	Fundamentals of programming technologies
2	Specialty	1-26 03 01 "Information Resources Management"
3	Course of Study	1
4	Semester	2
5	Ccredit units	3
6	Degree, title, full name of lecturers	PhD in Engineering Sciences, Associate Professor Serebryanaya L.
7	Objectives	Acknowledge with modern methodologies and technologies for software development, which allow to develop high-quality software and significantly increase the productivity of the programmer, basic strategies of software development, life cycle models that implement these strategies, and the choice of life cycle models for a specific project; classical software development methodologies, CASE-technologies of structural analysis and software design. Development of skills and abilities in structural analysis of software.
8	Prerequisites	Software, programming technologies
9	Syllabus	Modern software functions. The increased size and complexity of the developed software. Software products, modern methodologies, technologies and development tools.
10	References	1. Анашкина Н.У. Технологии и методы программирования: Учебник / Н.У. Анашкина. - М .: Академия, 2013. - 384 с. 2.Люпин, С.А. Технологии параллельного программирования: Учебник / С.А. Люпен, Массачусетс Пасыпкин. - М .: Форум, 2018. - 448 с.
11	Teaching Methods	Explanatory and illustrative, reproductive, partially-research, comparative, problematic, dialogue-heuristic, research, generalizing, analytical.
12	Tuition Language	Russian