

**Academic discipline:
"Programming for data collection, processing and analysis"**

Code and name of specialty	1-23 01 15 Social communication
Training course	3
Semester of training	5
Number of class hours:	68
Lectures	20
Seminar classes	48
Practical exercises	-
Laboratory classes	-
Form of intermediate assessment (credit/differential credit/exam)	credit
Number of credits	3
Competencies to be formed	To apply programming skills to data collection, processing and analysis
Summary of the content of the academic discipline:	
<p>The course "Programming for data collection, processing and analysis" is focused on the formation of basic knowledge and skills of programming in Python, as well as on exploring its capabilities in solving problems related to data analysis. The course introduces the syntax and basic constructs of the Python language, programming paradigms, as well as tools for data analysis and visualization, such as the NumPy, Pandas, Matplotlib and Seaborn libraries. The practical implementation of the course is focused on solving cases on working with data from different fields.</p>	