Division: *Institute of Natural Sciences and Mathematics, Department of Optoinformatics*

Academic programme: *03.04.01 Applied Mathematics and Physics, Fibre and Laser Optics*

Programme lengthh: *2 years*

Language of instruction: *Russian*

Programme level: *Master's degree*

Programme description:

- *Teaching special disciplines by leading scientists of SUSU and institutes of the Russian Academy of Sciences.*
- *Research work on the application of computer technology, experimental and theoretical research integrated into the curriculum under the guidance of scientists with an international reputation.*
- *Research work within the framework of scientific programmes of the Russian Academy of Sciences, grants from Russian and foreign foundations.*
- *Improving the English language.*
- *Skills of information search and work with modern scientific literature.*
- *Skills of effective presentation of scientific results in Russian and English.*
- *Opportunity to receive individual grants for research work.*
- *Opportunity to publish the received results in leading Russian and international editions.*
- *Opportunity to obtain a scientific background for continuing education in postgraduate studies.*

Main programme-specific classes:

- *Interaction of Radiation with Matter. Nonlinear Optics. Fibre Optics. Crystal Optics. Technical Optics. Laser Optics.*
- *Supercomputer Simulation and Technologies. Methods of Computer Simulation of Physical Processes.*
- *Foreign Language in Professional Activity. Foreign Language in Professional Communication. Training in Professionally Oriented Rhetoric, Discussions and Communication. Technologies of Professional Communications*

Programme manager: *Nataliia D. Kundikova, Doctor of Sciences (Physics and Mathematics), Professor*