Description of Master Program

*System Ecology and Simulation*

|  |  |
| --- | --- |
| Area of study | 022000 "Ecology and Natural Resources", program “System Environment and Simulation” |
| Form of study | Full-time studies  |
| Program duration  | 2 years |
| Awarded qualification  | Master of Ecology and Environmental Sciences |
| Field of professional activity | Environmental Protection Management  |
| Key professional competences | - conduct research, evaluate and regulate the human impact on the environment, life quality and public health for providing sustainable social and economic development of Volga Federal District and country in general;- apply advanced mathematical and statistical methods of processing and modeling of spatial information in Ecology, Environment and Natural Resources Management;- carry out spatial analysis and comprehensive assessment of ecological state of natural – anthropogenic systems, territorial organization of regional and national environmental management systems and environmental management;- master technologies and competencies in the use of cartographic research method; engineering of specialized geographic information systems, efficiently use remote sensing data and methods for online mapping;- ensure the development of regional strategies for managing and maintaining inventories of natural resources, facility management of specially protected natural areas by the executive power of republics and provinces of the district. |
| Employment opportunities | environmentalist, environmental consultants, environmental experts in public and private sectors, different subdivisions of environmental bodies, various governmental and municipal management, national economy of the district and the Russian Federation associated with the use of natural resources, development of environmental technologies and monitoring systems, territorial planning and design. |