

**Don State Technical University
HIGHER EDUCATION SYLLABUS IN**

1.1.Name of the study programme (in the original language)	ЭКОЛОГИЯ
1.2.Name of the study programme in English	Ecology
1.3.Qualification (degree)	researcher, lecturer and researcher
1.4.Mode of education	full-time study, part-time study
1.5. Educational department	faculty «Energy and communication systems», department of «Industrial safety»
1.6.Workload (ECTS)	180
1.7.Duration of education	3 years (full-time study) 4 years (part-time)
1.8.Field	Earth sciences
1.9.Profile	Ecology
1.10.Code of the field	05.06.01
1.11.Teaching languages	Russian
1.12.Other necessary languages	
1.13.Approved by the educational department (date)	
1.14.Admission requirements	Diploma of higher education (specialist, master's degree), entrance examinations (foreign language, philosophy, special discipline)
2.Aim of the programme	
<p>The aim of the program is to train highly qualified specialists in the field of ecology-researchers, teachers-researchers with professional knowledge of the processes of creating artificial ecosystems, providing a stable state of the environment in the creation of a safe and comfortable environment, as well as skills in the field of research of the impact of anthropogenic factors on ecosystems at different levels; owning methods of development of environmentally sound standards of human economic activity impact on the environment, management skills of artificial ecosystems, technology design of the educational process at the level of higher education; knowing the scientific basis of management of anthropogenic impact of the economy on the environment, modern methods of creating artificial ecosystems, providing a stable state of the natural environment, regulatory and legal framework of teaching in higher education; able to apply their knowledge and skills in both the domestic and European cultural and technological space; specialists, corresponding to the modern world level of General cultural competencies, prepared for further self-learning and continuous self-improvement.</p>	
3.Characteristics of the programme	
3.1.Main disciplines/modules	Ecology Research project Foreign language History and philosophy of science Pedagogical practice Psychology and pedagogy of higher education Information technologies in science and education
3.2 Elective disciplines	Development and implementation of educational programs on basis of Federal Educational Standard. Management and marketing in sciences society
4.Employment and further education opportunities	
4.1 Job opportunities	scientific research activities in the field of Earth sciences; Teaching activities for higher education programs

5. Programme learning outcomes

1. Analysis and evaluation of modern scientific achievements, generation of new ideas in solving research and practical problems, including in interdisciplinary areas
2. Design and implementation of complex research, including interdisciplinary, on the basis of a holistic system of scientific Outlook using knowledge in the field of history and philosophy of science
3. Participation in the work of Russian and international research teams to address scientific and educational programs
4. The use of modern methods and technologies of scientific communication in the state and foreign languages
5. Planning and solving problems of own professional and personal development
6. The implementation of research activities in the field of ecology, using modern research methods and information and communication technologies
7. Conducting teaching activities on the main educational programs of higher education
8. Research of influence of anthropogenic factors on ecosystems of different levels for the purpose of development of ecologically reasonable norms of impact of economic activity of the person on environment
9. Creation of artificial ecosystems, providing a stable state of the natural environment in the creation of a safe and comfortable environment, and management of their functionality.

6. Education style (Teaching, learning, assessment)

6.1 Educational technology: individual work plan, teamwork, problem solving method, experience based learning, project method

6.2 methods of evaluation: case-method, multimedia presentations, reports, abstracts, creative tasks

7. Contact information (responsible chair, head of the programme)

Department of «Industrial safety», head of the program is doctor of technical Sciences, Professor
Vladimir Gaponov