

**ESSAY TOPICS FOR APPLICANTS TO THE DOCTORAL PROGRAM OF THE
GROUP OF EDUCATIONAL PROGRAMS 8D05201 "ECOLOGY"**

1. The main sources and characteristics of emissions of harmful substances
2. Methods of cleaning gases from harmful impurities
3. Industrial waste disposal technologies
4. Habitat monitoring – comprehensive monitoring.
5. General approaches to environmental quality regulation by rationing anthropogenic loads.
6. Water quality requirements and their classification.
7. Theoretical foundations of water softening, classification of methods.
8. The concept of the biosphere and anthropogenic factors
9. The legal basis for the protection of biodiversity. Species conservation categories
10. Design of protected areas
11. Theoretical foundations of suspension deposition.
12. Fundamentals of biodiversity conservation
13. Global monitoring system.
14. Theoretical foundations of coagulation of water impurities.
15. The problem of small populations, global climate warming, human activity, forest depletion, innovations in science and technology, species extinction, studying the causes of threats to biodiversity