

Course Name Professional English

Course Overview

Level of study	Master Degree
Workload	ECTS: 3 Total Hours: 76 Contact Hours: 32 Lectures: 16 Labs: 16
Course Code	
Semester	Winter
Prerequisites	English
Course	is to give knowledge of atmospheric aerosols in environment.
Objectives	is to five micricage of amospheric acrossis in curiformicia.
Learning Outcomes	Students should: - define main terms - use correctly the terms - be able to discuss why aerosols is important to study - know procedure of aerosol collection - know methods of aerosol composition study - be able to interpret the results, obtained from aerosol composition stud
Syllabus	Introduction in the course 1. Basic concept of atmospheric aerosols system 2. Anthropogenic aerosol 3. Methods of aerosol study. 4. International programs to study of aerosol. 5. Contamination monitoring of snow cover. 6. Mineral and anthropogenic particles in aerosols. 7. Elemental composition of dust aerosols (by the example of Tomsk city) 1. Terminology relating to atmospheric aerosols
Labs	 Aerosol classification Size of atmospheric particles. Health effects of atmospheric particles Video task Aerosols and climate change Study of substantial composition of insoluble particles of snow by schlich analysis Study of substantial composition of insoluble particles of snow by scanning electron microscopy method Geochemical particularities of insoluble phase of snow Modes of radioactive elements occurrence in insoluble phase of snow by fission radiography (f-radiography) method
Projects	
Assessment Resources	Credit test Kondratyev K.Ya., Ivlev L.S., Krapivin V.F., Vatotsos C.A. Atmospheric aerosol properties: formation, processes and impacts – Springer, 2006. Levin Z., Cotton W.R. et. All. Aerosol pollution: impacts on precipitation – Springer, 2009 Yazikov E.G., Talovskaya A.V., Nadeina L.V. Geoecological environmental monitoring: coursebook. – Tomsk: TPU publishing house, 2013. – 135 p.
Instructors	Anna Talovskaya, associate professor, PhD