

Basics of Waste Management Programs Development

1 semester Syllabus

Part 1: Course Information

Instructor Information

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Course Description

Objectives of the discipline

- 1) formation of ideas about the strategy in the field of waste management.
- 2) Development of theoretical knowledge about the components that determine the hazardous properties of waste, on the mechanisms underlying waste processing, on the impact of waste components on the neighboring environment.
- 3) Familiarization with the legislative and regulatory framework that ensures the management of waste treatment.
- 4) acquisition of skills to determine the hazard class of waste, placement fees waste, determination of basic, regulatory and differentiated rates of payment for environmental pollution.

Prerequisite

- Legal Support of Sustainable Waste Management on National, Regional and Municipal Levels
- Management and Control under Waste Management Programs

Textbook & Course Materials

Required Text

1. Shubov, Lazarus Yakovlevich. Waste technology: a tutorial for students of universities / L. ya. Shubov, M. E. Stavrovsky, A. V. Oleynik; ed. I. Shubova. - Moscow: alpha-M: INFRA-M, 2015. - 352 p.: Il. - (Technology service :Magistracy).
2. Yasoveev, Marat Gumerovich.. Ecology of urbanized education: studies.a manual for students universities / M. G. Yasaveev, N. L. Eaves, D. A. Pitsikalis ; ed. by M. G. Yasaveev - Minsk; M.: New knowledge: INFRA-M, 2015. - 293 p.: Il. L1.
3. Mavrishchev, Victor Viktorovich. - Minsk ; General ecology. Course of

lectures: studies'.manual for University students Nebiolo. areas of training / V. V. Mavrides. - 3rd ed., erased. M.: New knowledge : INFRA-M, 2015. - 200 PP.

4. 4 Gutsayluk, Zinovy Vladimirovich Accounting and control of production departures'. - M: the Finance and statistics, 1990. - 78(1) S. - (Accountant prom. enterprises.)
5. Dvorkin L. I., Pashkov I. A. Construction materials from waste industries: K.: Visas., 1989
6. Dworkin, Leonid Iosifovich Construction materials from waste industries: Rostov-on-don: Phoenix, 2007. - 363 p.
7. Denisov V. V., Kurbatova A. S., Bondarenko V. L. and etc. Ecology of the city Moscow: ICC "March", 2008
8. Dmitrieva V. I., Stepanov A. I., Frozen G. E. Vermiculture: theory, experience, practice Yakutsk: Sakhapoligrafizdat, 2000

Recommended Texts & Other Readings

1. Drugov Yuri Stepanovich Analysis of contaminated soil and hazardous waste: a practical guide Moscow: BINOM. Knowledge laboratory, 2007. - 424 p.
2. Zhadan Anatoly Markiyovich. Gumenyuk, Galina Denisovna. Use of industrial waste and agriculture in animal husbandry 3rd ed., additional and pererab. - Kiev: Harvest, 1991.
3. Kornilov Anatoly Nikolaevich Uranium mining waste industry: (Radiac.-hygienes'. aspects.) M.: Energoatomizdat, 1992. - 167
4. Kuznetsov A. E., Gradova N. B., Lushnikov S. V. Applied ecobiotechnology. Studies'.manual for students. no. studies'. Published in 2 volumes. M.: BINOM. Knowledge laboratory, 2010.
5. Lukanin, Valentin Nikolaevich Industrial and transport ecology Higher school, 2003. - 273 p.
6. Mirnyi A. N. Sanitary cleaning and cleaning of settlements places Moscow, AHK, 1997.
7. Palgunov P. P., Sumarokov M. V. Utilization of industrial waste M.: stroizdat, 1990
8. Pimoshenko, Alexander Petrovich. Pollution prevention surrounding media from ships Moscow: Mir, 2004. - 317 PP. The Federal Agency for fishery Russia
9. Under.ed. Solid waste. Appearance, collection, processing and removal. Moscow: Stroizdat, 1979
10. Rodionov Anatoly Ivanovich Protection of the biosphere from industrial releases': fundamentals of technological design processes' Moscow: Chemistry: Kolos, 2005. - 386 p.
11. Races Michael Andreevich Management of spent nuclear fuel fuel and radioactive waste of nuclear power plants Moscow: Publishing House MEI's house, 2007. – 447 PP.
12. Smetanin V. and environmental protection from waste production and consumption Moscow. Kolos, 2003.

Course Requirements

- Internet connection
- Multimedia equipment

Course Structure

Lectures and reading materials. Participating in the lectures and reading the assigned papers are the most essential parts of the course. All enrolled students are therefore expected to participate in all lectures and read all assigned papers.

Seminars. The seminars are organized and conducted by the Instructor. The student performance at the seminars will be assessed based on three criteria: attendance, preparedness, and activity.

Assignments. For each part of the course there will be an individual assignment to write a short paper addressing a specific question. The assignments will be graded and

commented by the Instructor with one paragraph of comments.

Points for participation in role-plays and discussions are awarded if the students use additional information from supplementary readings and make explicit reference to the author and to the book/article they have used.

Mid-term exam consists of a multiple choice test of 20 questions that deal with terms, ideas, and facts covered during the previous weeks and a short (not exceeding 250 words) written answer to one of two questions based on material covered within the previous weeks.

Group presentation. A PowerPoint (or Prezi, or OpenOffice) presentation of 20-25 slides prepared by a working group (depending on the number of students in the class but not more than four students in a group) on one of the issues covered in the course. The presentation will be followed by a Q and A session. Presenters are expected to demonstrate their use of theoretical and methodological tools discussed during the course for analysis of the subject of their presentation.

Final Exam consists of an open-ended test that requires short (1-3 sentences) responses to 100 questions based on the material covered within the course and a short academic essay (200 words) on one of three suggested topics.

Part 2: Student Learning Outcomes

As a result of mastering the discipline the student:

1. Need to know:

- strategy for waste management on the components that determine hazardous properties
- on the mechanisms underlying the recycling of waste, on the impact of components
- the impact of waste on adjacent environments.

2. Must be able:

- apply the acquired knowledge for practical analysis of environmental issues,
- to use legislative and regulatory acts to ensure the management of
- waste treatment.

3. Must own:

- the main methods and techniques of research and practical work in the field of
- waste management, skills to determine the hazard class of waste, fees for
- waste disposal, determination of basic, regulatory and differentiated rates
- fees for environmental pollution.

4. must demonstrate ability and willingness:

- to independently obtain information about the constantly changing legislation in the
- the field of the reference with production wastes and consumption.

Part 3: Topic Outline/Schedule

- Week 01:** Overall waste management strategy
- Week 02:** Overall waste management strategy
- Week 03:** Overall waste management strategy
- Week 04:** Overall waste management strategy
- Week 05:** Overall waste management strategy
- Week 06:** Organization of solid waste collection system
- Week 07:** Organization of solid waste collection system
- Week 08:** Organization of solid waste collection system
- Week 09:** Organization of solid waste collection system
- Week 10:** Organization of solid waste collection system.
- Week 11:** Organization of solid waste collection system.
- Week 12:** The process of developing programs for waste management
- Week 13:** The process of developing programs for waste management
- Week 14:** The process of developing programs for waste management
- Week 15:** The process of developing programs for waste management
- Week 16:** The process of developing programs for waste management

Part 4: Grading Policy

Graded Course Activities

E C T S Grade	Points	Russian grade
A	100-91 points	“excellent”: 100–80 points
B	90-81	
C	80-71	“good”: 79– 60 points
D	70-61	
F : failed	less than 60 points: failed	“satisfactory”: 59–40 points
		“unsatisfactorily”: failed, less than 40 points

Part 5: Course Policies

Attend Class

Students are expected to attend all class sessions as listed on the course calendar.

Build Rapport

If you find that you have any trouble keeping up with assignments or other

aspects of the course, make sure you let your instructor know as early as possible. As you will find, building rapport and effective relationships are key to becoming an effective professional. Make sure that you are proactive in informing your instructor when difficulties arise during the semester so that they can help you find a solution.

Complete Assignments

Assignments must be submitted by the given deadline or special permission must be requested from instructor *before the due date*. Extensions will not be given beyond the next assignment except under extreme circumstances.

All discussion assignments must be completed by the assignment due date and time. Late or missing discussion assignments will affect the student's grade.

Commit to Integrity

As a student in this course (and at this university) you are expected to maintain high degrees of professionalism, commitment to active learning and participation in this class and also integrity in your behavior in and out of the classroom.

Academic Dishonesty Policy

1. Academic dishonesty includes such things as cheating, inventing false information or citations, plagiarism and helping someone else commit an act of academic dishonesty. It usually involves an attempt by a student to show possession of a level of knowledge or skill that he/she does not possess.

2. Course instructors have the initial responsibility for detecting and dealing with academic dishonesty. Instructors who believe that an act of academic dishonesty has occurred are obligated to discuss the matter with the student(s) involved. Instructors should possess reasonable evidence of academic dishonesty. However, if circumstances prevent consultation with student(s), instructors may take whatever action (subject to student appeal) they deem appropriate.

3. Instructors who are convinced by the evidence that a student is guilty of academic dishonesty shall assign an appropriate academic penalty. If the instructors believe that the academic dishonesty reflects on the student's academic performance or the academic integrity in a course, the student's grade should be adversely affected. Suggested guidelines for appropriate actions are: an oral reprimand in cases where there is reasonable doubt that the student knew his/her action constituted academic dishonesty; a failing grade on the particular paper, project or examination where the act of dishonesty was unpremeditated, or where there were significant mitigating circumstances; a failing grade in the course where the dishonesty was premeditated or planned. The instructors will file incident reports with the Deputy Director for Academic Affairs. These reports shall include a description of the alleged incident of academic dishonesty, any relevant documentation, and any recommendations for action that he/she deems appropriate.