

# **Management and Control under Waste Management Programs**

## **2 semester Syllabus**

### **Part 1: Course Information**

#### **Instructor Information**

**Instructor:** Dr. Nina Symaniuk

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#### **Course Description**

The objectives of the discipline-the formation of environmental worldview of future professionals, which will allow them to professionally analyze and evaluate its own production activities in relation to the environment and make environmentally sound decisions.

#### **Prerequisite**

Legal Support of Sustainable Waste Management on National, Regional and Municipal Levels

#### **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 Markiyonovich. 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 must:

Know:

- provisions of water and land legislation
- rules of protection of natural resources at water use
- rules of protection of natural resources at water use, land use and arrangement of the natural environment
- develop methodological and practical recommendations for the use of natural resource potential of the territory

Understand:

- develop documents for environmental management systems
- Develop documents for the environmental assessment of economic projects of control and audit activities ability to use normative legal documents in their activities

Own:

- ability to analyze socially significant problems and processes
- ability to use the basic provisions and methods of economic Sciences in solving social and professional problems
- ability to use the basic provisions and methods of social, Humanities and economic Sciences in solving social and professional task
- provisions of water and land legislation
- rules of protection of natural resources at water use
- rules of protection of natural resources at water use, land use and arrangement of the natural environment
- develop methodological and practical recommendations for the use of natural resource potential of the territory

Know:

- develop documents for environmental management systems
- Develop documents for the environmental assessment of economic projects of control and audit activities
- ability to use normative legal documents in their activities

Own:

- ability to analyze socially significant problems and processes
- ability to use the basic provisions and methods of economic Sciences in solving social and professional problems
- ability to use the basic provisions and methods of social, Humanities and economic Sciences in solving social and professional task.

### **Part 3: Topic Outline/Schedule**

**Week 01:** Household and production waste

**Week 02:** Household and production waste

**Week 03:** Household and production waste

**Week 04:** Household and production waste

**Week 05:** Household and production waste

**Week 06:** Methods of preparation and processing of solid waste

**Week 07:** Methods of preparation and processing of solid waste

**Week 08:** Methods of preparation and processing of solid waste.

**Week 09:** Methods of preparation and processing of solid waste.

**Week 10:** Methods of preparation and processing of solid waste.

**Week 11:** Methods of preparation and processing of solid waste.

**Week 12:** Methods of preparation and processing of solid waste

**Week 13:** Waste management and management in cities and towns

**Week 14:** Waste management and management in cities and towns

**Week 15:** Waste management and management in cities and towns

**Week 16:** Waste management and management in cities and towns

**Part 4: Grading Policy**

**Graded Course Activities**

<b>E C T S Grade</b>	<b>Points</b>	<b>Russian grade</b>
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.