



Training Masters' Program
«Integrated Solid Waste Management»
Program Supervisor: Kharlamova M.



The main Goal of Program:

Creation of conditions for obtaining high-quality education in the field of **integrated solid waste management** for regions of the world with least developed economies and highly effective use of energy potential of waste based on the application of:

- **International experience** and **modern technologies** for the collection, transportation, sorting and disposal of industrial and municipal waste;
- The use of **innovative programs** and **new teaching technologies** that guarantee a graduate master's degree of high competitiveness in the labor market,
- Development of **cognitive activity, scientific creativity, independence and creativity** in the sphere of professional activity



Objectives of the Program

1. **Formation of knowledge, abilities and skills** in organizational and managerial, research and **creative innovation activities**, in **interdisciplinary areas**, including international projects related to the selection, optimization and development of highly efficient technologies for energy recovery from waste and human and environmental protection systems from their negative impact
2. **Formation of knowledge, abilities and skills** in the field of:
 - Main **technological processes of thermal and biothermal processing** of industrial and household wastes
 - Effective **management of municipal and regional waste streams** in order to **obtain and distribute energy** and to **obtain secondary material resources**,
 - Protection of environment from man-caused impact during thermal and biothermal processing of waste;
 - Conducting analytical and **physicochemical monitoring and control of pollution sources** and components of the environment;
 - **Examination of environmental safety** of waste-processing industry projects

Content of Master Program:

- Stable and curricular plans;
- Work programs of educational disciplines and brief annotations of disciplines;
- Methodical materials (including electronic presentations of Educational-methodological complex on the e-platform);
- Programs of scientific research practice (individually for each student),
- Programs and guidelines for the final state certification

Key Disciplines:



IT in ecology and natural resources management

Green Economy and Tools for Enterprises Sustainable Development

Solid Waste Management (SWM) and Climate Change

Environmental Protection Biotechnology

Regional & Municipal MSW Management Systems

Nature Protection and Accumulated Environmental Damage (AED) Elimination Tools

Hazardous Waste Management & Processing

Physicochemical methods of waste testing



Places for Practical Trainings:

Key Partners:



Российский университет дружбы народов



ЛИГА ПЕРЕРАБОТЧИКОВ МАКУЛАТУРЫ



“HUBER TECHNOLOGIES”

Waste Paper Processors League

Moscow Waste Thermal Treatment Plant No. 4

ECOTECHNOLOGIES Group

MSW landfills

Waste Recycling Company in Togliatti POVTOR Group



Why we?



Modern theoretical and practical fundament (best teachers and professors, Faculty labs and Mutual Using Center)



Confident knowledge and practical skills in the field of waste management, ensuring the demand in the labor market of the waste-processing industry, highly paid and interesting work in the real sector of the economy and public authorities



Possibility to continue postgraduate studying



Practical-oriented approach, provided by highly qualified teachers and sustainable links with business and industry representatives

We've already had an experience!

No.№	Name, surname	Country	Topic of the work	Supervisor	Mark
1	Go Tsianpin	China, Shandun University (USCO)	Perfection of the method of bioremediation using phytotechnology (based on the example of Jinan, China)	Zikov V.N.	A (100)
2	Sue Lin	China, Shandun University(USCO)	Optimization of the solid municipal waste management system for Shandong Province, China (based on the example of Fang Gang Village)	Kharlamova M.D.	A (100)
3	Nguen Tchung Hieu	Vietnam	The structure of complex processing of agricultural wastes in Vietnam (on the example of Bindin province)	Tchernishov V.I.	A (98)
4	Hemenes Gutieres Mirian Iolanda	Equador	Waste management of the Canton of Francisco de Orellana in Ecuador: development strategy	Latushkina E.N.	C (72)
5	Dulmukhametova Zarina	Uzbekistan (USCO)	Territorial complex scheme for handling MSW in Yangiyul and Akkurgan districts of the Republic of Uzbekistan	Kharlamova M.D.	B (92)
6	Olga Umuraza	Ruanda	Municipal Solid Waste Management System in Kigali City: Technics of Solid Waste Handling and Reducing Them in Landfill	Zikov V.N.	B (89)

Master's Program Teaching Staff

Program Manager



Marianna D. Kharlamova, Ph.D. in Chemistry,
Head of the Department of Environmental Monitoring
and Forecasting.

Research interests: Solid Waste Management,
Sustainable Development Strategies, Environmental
Analysis, Waste water and Gas Emissions Treatment,
Ecological Education and Professional Standards.

Author of more than 70 scientific and educational
works, including 8 tutorials.



Current contacts



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