

Course description

Tempus project EcoBRU

Course name
1. Transportation and territorial environmental problems and their solutions

Lecturer	Educational institution
Course Director: Surovtseva O. Other team members: Sultanov N. Chernyaeva V. Kokleva N.	PSTU

Deficit definition

Relevance of the environmental knowledges due to aggravation interrelation between society and nature be embodied in at all known sciences and school disciplines.

Discrete role in the liquidation of ecological illiteracy belongs comprehensive school because at school potential user of subsurface resources be given by educational background.

At the present time society is aware of that the main factors of sustainable growth be are the safeguards environmental safety.

Consequently teachers are necessary the ecological education as promising direction of creation of harmonic relations between society and nature.

Required space in the training	Course level	Course type
Advanced training		MOODLE

Target group	Duration	Languages
teachers of comprehensive schools	54	Russian

Conditions	
Conditions: Internet	Other requirements (if applicable) -

Ladder Points (1 un.=36 h)	Total hours	MOODLE	Independent work (h)
1.5	54	45	9

Topicality for EcoBRU
General environmental education

Themes / Content	MOODLE	Hours and tasks for independent work
1 Assessment of the environmental situation in the region <ul style="list-style-type: none"> - Assessment of the environmental situation in the region - Urban environmental problems and their solutions (noise, air, soil and water pollution, waste and recycling, electromagnetic radiation, transport, 	9	2

Themes / Content	MOODLE	Hours and tasks for independent work
etc. - Organization of environmental activities in the Baltic sea area and the environmental problems of the Baltic States. "The action plan of HELCOM at the Baltic Sea"		
2 Elimination of the negative impact of urban transport on the environment - Analysis of possible options for public transport: their advantages and disadvantages. - Documents regulating the negative impact on the environment (regulations of the Russian Federation and foreign ones) - Analysis of ways to reduce the negative impact of urban transport on ecosystems used in Russia and abroad	9	2
3 Environmental problems of big cities and their solutions - Urban environmental problems and their solutions (noise, air, soil and water pollution, waste and recycling, electromagnetic radiation, transport, etc.) - Determination of the zone of influence of transport on the environmental systems of the city.	9	2
4 Environmental marketing (environmental aspects of the market management) - Socially responsible marketing. - Green economy and environmental marketing. - Bioresonance approach to business. - Territorial marketing - Transport marketing - Ecological design.	18	3
	45	9
TOTAL		54

Forms of control and assessment			
Control form	Percentage ratio	Dates	Criteria of assessment
Test`s question (MOODLE)	30	within the framework of learning course	more than 59 %
Lecture on-line (MOODLE)	20		more than 59 %
Abstract	20		Conciseness, consistency, design, literacy
Credit	30		"Credit"- student shows good knowledge of educational material on the topics of the course. While logical and consistent presented material, reveals the meaning of the question, gives the right answers to additional questions. «Fail» - listener is difficult respond to questions raised, give partial answers to the questions from the basic literature recommended for the course.

Terms and conditions of access to monitoring and assessment of knowledge (exam)

Test`s question (MOODLE) & Lecture on-line (MOODLE) more than 59 % + Abstract

Document type certifying the successful course visiting (Certificate?)

certificate

Organizational guidelines

Place: www.pgups-tempus.ru

Example: <http://www.pgups-tempus.ru/course/view.php?id=155>

The recommended number of participants: no regulate

Literature and educational materials

Author	Year of publishing	Title	Pages number	Place of publication, publisher or an online link
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Basic literature

1. Feraru G. S. Environmental management: textbook for bachelor and master degree students / G. S. Feraru. - Rostov: Publishing house Phoenix, 2012. – 528 p.
2. "Urban rail transport: innovative technologies." Paraskevopulo Y. G., Ilyin A. A., Kulinich N. V., scientific, industrial and technical journal "Road and track facilities" 5.2013/Ministry of Railways of Russia, RITZH. M. - Transzheldorizdat.
3. "Urban rail transport: innovative technologies." Paraskevopulo Y. G., Ilyin A. A., Kulinich N. V., scientific, industrial and technical journal "Road and track facilities" 5.2013/Ministry of Railways of Russia, RITZH. M. - Transzheldorizdat.
4. "Laboratory tests on the construction of tram tracks on cyclic loads" Benin A. V., Dudkin E. P., Paraskevopulo Y. G., Sultanov N. N. Transport of The Russian Federation . 2014. № 4(53). p. 28-30
5. Schmal, A. G. Environmental hazards & environmental risks. Publisher: MP "ICC BNTV, 2010, Bronnitsy, p. 191
6. Rio de Janeiro Declaration on environment and development [Electronic resource] / Access mode: http://www.un.org/ru/documents/decl_conv/declarations/riodecl.shtml
7. Marketing: a textbook for bachelors / edited by N. M. Kondratenko. — 2nd edition, revised and enlarged — M: publishing house Urait; PH Urait, 2014. — 542 p. — Series: Bachelor. Basic course.
8. Transport Marketing [Text]: the textbook for students of railway transport / V. G. Galaburda [and others.]; edited by V. G. Galaburda, 2011.
9. Drozdova V. A. Socially responsible marketing today // Modern scientific research and innovation. 2013. № 12 [Electronic resource]. Access mode: <http://web.snauka.ru/issues/2013/12/30339> (reference date: 04.06.2015).
10. The Official site of the administration of St. Petersburg. The Committee on transport. Access mode: http://gov.spb.ru/gov/otrasl/c_transport/
11. Strategy of economic and social development of St. Petersburg for the period up to 2030. Access mode: <http://spbstrategy2030.ru/>
12. Vuchic V. R. Transport in livable cities - Moscow: the territory of the future, 2011, 820 p.

Additional resources

1. Ecological justification of design solutions [Text] / E. S. Svintsov, O. B. Surovtseva, M. V. Tishkina - Moscow: publishing house of the UMC ZHDT (Route), 2006.
2. Convention for the protection of the marine environment of the Baltic sea area, 1992.
3. Serov G. P. "Environmental audit and environmental audit activities"; DELO, 2008, ISBN 978-5-7749-0490-7
4. Sergeeva T. V. Environmental audit. Textbook for higher schools. GRIF UMO of RF; UNITY, 2005, ISBN: 5-238-00844-9
5. Oveshnikov E. V., Fishelson M. S., "Urban transport"
6. "Urban transport" Yudin V. A., Samoilov D. S.
7. "New transport systems in urban public transport" D. Hebarda translation from Slovak Ph. D. Cosmina V. V.
8. Abstracts of the conference "Technosphere and environmental safety on transport» IV International scientific-practical conference on October 22-24 2014. in FSBEI HPO of PSTU of Emperor Alexander I
9. Ecological safety of transport flows. / Edited by A. B. Djakov. – M.: Transport, 1989.
10. Ecoculture. In search of a way out of the ecological crisis. / Edited by N. N. Marfenin. – M.: MNEPU, 1998.
11. Konstantinov V. M. Ecological bases of nature management. - M., 2001.
12. "Urban electric transport: Trolleybus" Textbook for primary professional Education. Maksimov A. N. Publishing center "Academy" 2004.
13. Agadzhanian N. A., Makarova I. I. Magnetic field of the Earth and the human body // Human ecology. - 2005.

- № 9. - p. 3-9

14. Safronov, E. A. Transport systems of cities and regions. Publishing house of the Association of construction universities. M, 2005. – 266 p.
15. Pankruhin A. P. Territory Marketing / Training manual, 2nd edition, supplemented. - SPb.: Peter, 2006. - 416 p.
16. Philip Kotler. Marketing, Management: textbook / Philip Kotler, Kevin Lane Keller. Translation: V. Kuzin - Piter, 2014. ISBN: 978-5-496-00177-9

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