



TEMPUS/EcoBRU - Ecological Education for Belarus, Russia and Ukraine



University of Žilina
Faculty of Civil Engineering

Environmental Education at University of Žilina

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Environmental Education at University of Žilina

Bachelor's study		
Study Field	Study programm	Subject
Geodesy and Cartography	Geodesy and Cartography	Urban Planning I
Constructions and Traffic Structures	Building	Urban Planning I (full-time study)
		Urban Planning I (distance study)
Civil Engineering	Civil Engineering	Urban Planning I
		Thermal Performance of Buildings
		Building and Environment
		Urban Planning II
Building	Technology and Construction Management	Urban Planning I
		Environmental Protection
		Spatial Planning*
		Ecology*
		Ecology*
		Environmental Protection *
		Urban Planning I*
Environmental Protection		
		*optional



Urban Planning I

Learning outcomes

Mastering the basic principles of spatial planning as a tool of sustainable development. Knowledge of urban issues, legislative and administrative process of town planning in the Slovak Republic. Land Use Plan (LUP) Documentation. Historical landscape.

Prerequisites students are able to :

- understand the LUP Documentation
- know principles of optimal spatial planning in Slovakia
- identify historical landscape and historical urban structures
- define Potentials and Limits of the landscape
- know urban policy and management tools





Urban Planning II

Learning outcomes

The subject Urban Planning II follows up with the subject Urban Planning I. The aim of the subject is to deepen knowledge from Urbanism and Slovak landscape.

Prerequisites students are able to :

- analyse interventions designed by LUP Documentation
- know political and social background of urban planning in Slovak republic
- know the principles of optimal spatial development
- elaborate historical structures analyses of built-up area
- design the optimal development of the town
- estimate tendencies in the urban development





Thermal Performance of Buildings

Learning outcomes

Students are able to do basic thermal technical calculations of construction. They know the principles of optimal design of construction to meet thermal, technical and ecological requirements. They know Slovak, Czech and EU environmental legislation support.

Prerequisites

Knowledge of the fundamental physical principles and thermal properties of constructions and building materials.





Building and Environment

Learning outcomes

The aim of the subject is to understand the principles of interactions between indoor building construction and its environment.

Prerequisites students are able to :

- applying the mastered principles to design environmentally friendly constructions according with Slovak and EU laws.





Environmental Protection

Learning outcomes

General overview about the natural environment and the interactions with human factor. To know landscape typology, their characteristics, possibilities of exploitations, treatment and protection.

Prerequisites students are able to :

- understand the principles of sustainable and equitable use of resources without degrading the environment or risking health or safety
- knowledge of Slovak environment and environmental legislation





Spatial Planning

Learning outcomes

Landscape, its potentials and limits of development. Spatial planning as a tool of sustainable development of the country.

Prerequisites students are able to :

- apply basic knowledge of Spatial Planning and Urbanism in their praxis
- understand axes and tendencies of EU development and the role of Slovak republic in this process
- know principles of technical infrastructure designing and transport infrastructure designing
- understand principles of development, potentials and limits of Slovakia in European space





Ecology

Learning outcomes

The aim of the course is to familiarize students with the selected theoretical and practical issues from Ecology. To know the methodology and understand analytic-critical approaches of environmental assessment in conditions of Slovak republic.

Prerequisites students are able to :

- use terminology and methodology and approaches
- understand the principles of landscape management, exploitation and treatment
- methodology LANDEP
- landscape components and their interactions, urban space and
- greenery and urban space, greenery and infrastructure



Environmental Education at University of Žilina

Master's study		
Study Field	Study programm	Subject
Constructions and Traffic Structures	Railway Engineering (full-time study/distance study)	Infrastructure Planning *
		EIA - Environmental Impact Assessment *
	Road Engineering (full-time study/distance study)	Infrastructure Planning *
		EIA - Environmental Impact Assessment *
	Civil Engineering Structures (full-time study/distance study)	Infrastructure Planning *
		EIA - Environmental Impact Assessment *
Civil Engineering	Bearing Structures of Buildings	Construction Design/Atelier 3
		EIA - Environmental Impact Assessment *
		Construction Defects and their Maintenance
Building	Technology and Construction Management (full-time stud/distance study)	Infrastructure Planning *
		EIA - Environmental Impact Assessment *
		*optional





Infrastructure Planning

Learning outcomes

Acquire principles of transport-planning process, interactions of different transport according with urban, architectural and environmental requirements.

Prerequisites students are able to :

- understand main principles of Infrastructure Planning process
- know infrastructure in Slovak republic and EU and analysis of urban background of infrastructure planning process
- management of risks, visualisation of transport, methodology of transport optimisation
- stationary transport/parking, transport infrastructure in dense built-up areas and urban agglomerations



EIA - Environmental Impact Assessment

Learning outcomes

Syllabus is prepared according with Slovak legislative needs for proceeding preliminary environmental study.

Prerequisites students are able to :

- know the terminology, EIA – process, legislative background
- Strategic environmental assessment (SEA) process
- EIA process of transport infrastructure
- proceeding noise study
- have basic knowledge of multicriterial assessment
- BAT technologies in EIA process
- waste management and EIA process





Construction Design/Atelier 3

Learning outcomes

Subject Atelier 3 follows Atelier 1 and 2 (Bachelor's Study) and is specially focused on Thermal Buildings Characteristics and Thermal Performance of the construction. The aim of the subject is to draw up an architectural and engineering design of building. Project has to be prepared according with Act 183/2006 Coll. on town and country planning and building code (Building Act) and according with environmental needs.

Prerequisites students are able to :

- Draw up an architectural and engineering design of building
- prepare complete building documentation according with Building Act





Construction Defects and their Maintenance

Learning outcomes

Analysis and diagnosis of building defects (physical, chemical and biotical). Theoretical analysis of causes of degradation, possibilities of their treatment and management.

Prerequisites students are able to :

- identify building defects
- propose types of treatment according with the defects
- know construction details and their role in defectless structure
- know sanation methods of constructions





Doctoral study

Study Field	Study programm	Subject
Constructions and Traffic Structures	Theory and constructions of civil engineering (full-time study/distance	Environmental Science
Building	Technology and Construction Management (full-time stud/distance study)	Environmental Science





Environmental Science

Learning outcomes

Pollution Prevention, protection of the environment of the organic and anorganic contaminants caused by construction and operating life of buildings.

Prerequisites students are able to :

- elaborate environmental plan of construction
- know legislative background in Slovak republic and EU
- know components of the environment (soil, water, air, abiotic and biotic sphere, geology and human activity in the landscape)
- understand interactions between human factor and its environment and accept human element as an essential one in landscape management process





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University of Žilina
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Environmental Support Programmes/Institutions in Slovak Republic





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Institute of Ecological and Experimental Architecture (FA-STU)

http://www.fa.stuba.sk/english/institutes/institute-of-ecological-and-experimental-architecture.html?page_id=1059





TEMPUS/EcoBRU - Ecological Education for Belarus, Russia and Ukraine



Environmental Support Institutions

- Slovak Environmental Agency
- Slovak Environmental Inspection
- Passive House Institute
- Slovak Green Building Council





Slovak Environmental Agency

<http://www.sazp.sk/public/index/index.php>

<http://www.sazp.sk/public/index/index.php?lang=en>



**SLOVENSKÁ AGENTÚRA
ŽIVOTNÉHO PROSTREDIA**
SLOVAK ENVIRONMENTAL AGENCY



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Vyhľadavanie



Slovak Environmental Agency (SEA)

SEA Institution

Main Activities

Slovak Environmental Agency is a professional organisation of the Ministry of the Environment of the Slovak Republic (MoE SR) with nationwide scope of powers, which focus on the environment protection and landscape planning in accordance with principles of sustainable development.

SEA was established by the Decision of the Ministry of the Environment of the Slovak Republic of 17 May 1993 as an agency of the Ministry of the Environment of the SR fully funded from the state budget. Since 1 January 2001 it has been operating as a subsidized organisation receiving contributions from MoE SR. In 2005 SEA was awarded the Quality Management System Certificate and the Environmental Management System Certificate in accordance with ISO 9001 and 14001 standards.

SEA consists of the Headquarters in Banská Bystrica and four specialised centres with nationwide scope of powers controlled from the Headquarters:

- Centre of Environmental Sciences and Informatics
- Centre of Natural and Energy Resources Planning
- Centre of Landscape Creation and Environmental Education
- Centre of Waste Management and Environmental Management



Slovak Environmental Inspection

<http://www.sizp.sk/>

<http://www.sazp.sk/public/index/index.php?lang=en>

SIŽP Slovenská inšpekcia životného prostredia

Ministerstvo životného prostredia Slovenskej republiky

[Späť](#)

Aktuálne informácie

Verejné obstarávanie
[„Zabezpečenie sťahovania Slovenskej inšpekcie životného prostredia – Ústredie Bratislava z Karloveskej ul. č. 2 na Jeséniovu ul. č. 17“](#)
12.2.2014

Slovenská inšpekcia životného prostredia

Slovenská inšpekcia životného prostredia (SIŽP) bola zriadená rozhodnutím ministra - predsedu Slovenskej komisie pre životné prostredie z 29.augusta 1991 č.1545/1991-1 ako rozpočtová organizácia.

SIŽP vznikla zlúčením dvoch dovtedy samostatných organizácií - Štátnej vodohospodárskej inšpekcie a Štátnej technickej inšpekcie ochrany ovzdušia.

Životné prostredie je nevyhnutnou podmienkou našej existencie a prežitia. Je to jediné prostredie pre život, ktoré máme. Logickou nevyhnutnosťou teda je chrániť ho a zveľaďovať. Len poznanie však nestačí. Skutočnou zárukou udržania a zlepšenia súčasného stavu životného prostredia sú zákony a ich efektívne uplatňovanie.

Významným nástrojom presadzovania legislatívy životného prostredia do praxe je kvalifikovaná inštitúcia kontroly so zákonnými oprávneniami udeľovať sankcie. Na Slovensku je hlavným realizátorom takejto politiky Slovenská inšpekcia životného prostredia.

O nás
Dokumenty
Výročné správy
Organizačná štruktúra
Kontakty
Legislativa
Činnosť SIŽP
Mimoriadne zhoršenie vôd
IPKZ
Zmluvy SIŽP
Objednávky a faktúry
Projekty SIŽP
Informácie



Other Slovak Environmental Institutions

<http://nfp-sk.eionet.eu.int/institutions>

sa **NFP Slovakia**
Slovak Environment Agency

NFP-SK Slovak Environmental ...

Organisations within the branch of the Slovak Ministry of Environment

- Ministry of the Environment**
- Slovak Environmental Agency**
- Management of National Parks**
- Geology service**
WWW server of Geology service of SR
- Slovak hydrometeorological Institute**
WWW server of SHI providing information on weather, weather forecast, hydrology, climatology
- Management of Slovak Caves**
Basic information on Slovak caves
- ZOO**
Bojnice
- SIZP** **Slovak Inspection of the Environment**
- SOPSR** **State Nature Protection**

Save a Tree
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Please understand that you may not be authorised to reach all services.



Passive House Institute

<http://iepd.sk/>

http://www.passivehouse-international.org/index.php?page_id=77

The screenshot shows the website for 'Dni pasívnych domov' (Days of Passive Houses). The header includes the logo for 'iepd INŠTITÚT PRE ENERGETICKY PASÍVNE DOMY' and navigation links: 'nástroje', 'prihlásenie', 'hľadať...', 'Pasívny dom', 'Členovia', 'Domy', 'Ponuka', 'Inštitút', and 'Kontakt'. The main content area features a collage of images: a modern wooden house, an interior view of a child's room, and a map of Slovakia. Two red diagonal banners are overlaid on the images, containing the text: '31 domov - 632 navštevnikov. Ďakujeme' and 'Tešíme sa na vás 7.-9.11.2014'. At the bottom left, there is a logo with a house icon and the text 'Dni pasívnych domov'.

The screenshot shows the website for the Passive House Institute. The header includes the logo for 'International PASSIVE HOUSE Association' and navigation links: 'PASSIVE HOUSE INSTITUTE', 'iPHA', 'IG PASSIVHAUS', 'PASSIVE HOUSE DESIGNER', 'PASSIPEDIA', and 'PASSIVE HOUSE TRADESPERSON'. The main content area features a green background with a large house icon and the text 'PASSIVE HOUSE Association'. At the bottom, there is a navigation bar with links: 'iPHA', 'AFFILIATES', 'INFO MATERIAL', 'EVENTS', 'NEWS', 'HANDS ON', 'KEY PLAYERS', 'PROJECTS', and 'PASSIVE HOUSE'. The top right corner has links: 'Home', 'Contact', 'Imprint', 'Links', and 'FAQ'.



Slovak Green Building Council

<http://www.linkedin.com/groups/Slovak-Green-Building-Council-5072220>



The screenshot shows the LinkedIn group page for the Slovak Green Building Council. At the top left is the SKGBC logo with the text "SLOVENSKÁ RADA PRE ZELENÉ BUDOVY". The group name "Slovak Green Building Council" is displayed in the center, with "18 členů" (18 members) and a "Připojit se" (Join) button on the right. Below the name are navigation tabs: "Diskuze" (Discussion), "Propagace" (Promotion), "Pracovní příležitosti" (Job Opportunities), and "Vyhledávání" (Search). A grey information box contains the text: "O skupině Slovak Green Building Council", "Discussion, topics and inspiration of green buildings.", "Diskusie, námety a inšpirácie o zelených budovách.", "Chcete něco říci?", and "Zaregistrujte se zdarma do služby LinkedIn a zapojte se do konverzace. Jakmile se zaregistrujete, můžete psát komentáře a přidávat vlastní diskuze."



Myslíme ekologicky
stavíme s rozumom



Úvod | O NÁS | ČLENSTVO | AKCIE | AKTIVITY | ZELENÉ BUDOVY | MÉDIÁ | KONTAKT | PRIHLÁSENIE | neprihlásený užívateľ



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THANK YOU FOR YOUR ATTENTION

