Reform of Education THru
INternational
Knowledge exchange

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KICK-OFF MEETING

Technical University Of Moldova,
Chisinau 20 – 22 Of May 2014

Faculty of Urbanism and Architecture

Valeriu Lungu
Dean of the faculty

The Faculty of Urbanism and Architecture today is the main state university structure in the Republic of Moldova dedicated to the training of specialized staff in the field of architecture and urbanism.

Faculty of Urbanism and Architecture

- was founded 42 years ago in 1972
- we train students in 11 specialties
- the number of students in 2013-2014 was:

  - Level I - License Degree - 1890
  - Level II - Master Degree - 163
  - Level III - PhD Degree - 6

Faculty of Urbanism and Architecture

The faculty includes the following departments:

- Architecture
- Technology of Materials and Construction Elements
- Heating and Gas Supply, Ventilation
- Eco-technics, Ecological Management and Water Engineering UNESCO/COUSTEAU
- Railways, Roads and Bridges
- Architectural Construction
- Interior Design

Faculty of Urbanism and Architecture

Faculty has its own:

- Computing Center
- Library
- School of Design
- Center for Continuing Education
- Driver Training School

Faculty of Urbanism and Architecture

- At present, the faculty is training specialists in the 5 following professional areas:
  - Architecture and Urbanism:
  - Constructions and Civil Engineering:
  - Environment Engineering
  - Mechanic Engineering
  - Technology of Materials
- Master's education in 3 specialties
- Doctorate Education in 11 specialties

Faculty of Urbanism and Architecture

There are 203 teaching staff, of which:

- 82 - associate professors PhDs
- 5 - university professors DSCs
- 1 - academician of AS of RM

Faculty of Urbanism and Architecture

- Collections of scientific articles by the professors of our faculty is edited annually.
- Starting with 2002, every 2 years, a Technical-Scientific conference named the “Actual problems of urbanism and territory improvement" is organized.
- The teaching staff and students of the faculty participate in exhibitions and international symposiums.

Faculty of Urbanism and Architecture

Valeriu Lungu

Natalia Ciobanu

Constantin Tuleanu

Svetlana Oleinic

Technical University of Moldova

SWOT analysis of the Curricula

- "Architecture"
  Curricula of integrated degree education and PhD Degree

- "Urban Planning and landscaping"
  Curricula of education - Master Degree and PhD Degree

- "Sanitary Engineering and Environment Protection Systems Management"
  Curricula of education - Master Degree and PhD Degree

- "Engineering of Utilities that Ensure the Microclimate in Buildings"
  Curricula of education - Master Degree and PhD Degree

SWOT summary analysis of Curricula

main general principles common to the analyzed curricula

STRENGTHS

- The curricula is developed in accordance with the framework plan and meets modern requirements and corresponds to the level of modern European education;
- We have a sufficient number of hours which provided to explore issues of Urban Planning, Ecology, Health and Safety and environmental protection;

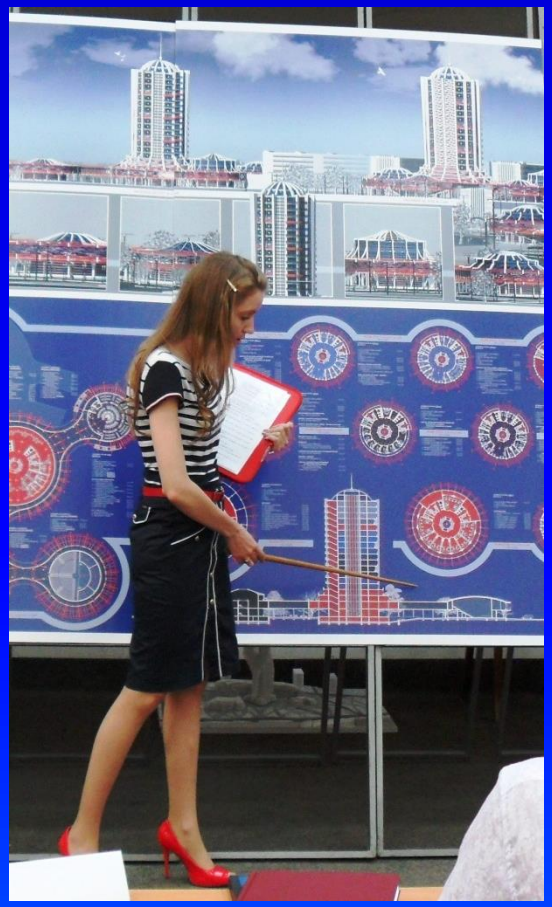
STRENGTHS

Teachers involved in the preparation of Master degree have advanced experience and scientific technical skills. They are able to provide thorough training in the most important spheres: architectural design, urban planning, civil engineering, urban environmental management, building integration and related facilities on bases of environmental development;

STRENGTHS

- We organize teacher training courses to exchange experience in various fields;
- We have partnership agreements with relevant local institutions such as: Chisinau City Hall, Union of Architects of Moldova, SA „Termocom” şi SA „Moldovagaz”, SA „Apă Canal Chisinau”.
- We provide opportunities in applied research necessary for a master’s degree;

STRENGTHS



- We offer possibilities of professional training and getting a master's degree too those specialists who have already got a higher education in different spheres;
- Our master`s degree training is adapted to the European and international standards;
- Final graduation projects are based on the solving of environmental problems.

STRENGTHS

- We have international cooperation with foreign organizations: UNIDO Austria, ENSI Norvegia, REHVA, AVOC, AIIR and multiple universities from Romania, Bulgaria, Belarus, Ukraine, Czech Republic, Germany, which stimulates the activity of professional multidisciplinary training of masters and their integration in international mobility.

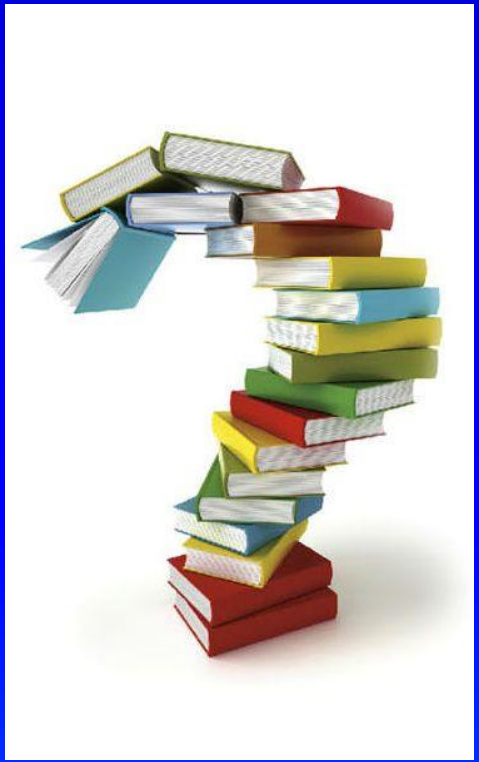
WEAKNESSES

- Unfortunately, our legislation system doesn`t have a definite mechanism which could provide ways and methods of motivation to graduates with master`s degree, their place in the labour market in conditions of competition and the current economic crisis;

WEAKNESSES

- Lack of finances doesn`t allow us to expend more on other activities to correspond to European and global level of master degree education;
- Inadequate salary for highly – qualified teacher's, limits their opportunities to increase their professional level. To keep their families they have to work in 2 or more different places;

WEAKNESSES



- Lack of laboratory space for the practical training in the disciplines of ecological orientation;
- Lack of literature on the teaching and learning of theoretical and practical courses revealing problems of ecology and environmental protection;

WEAKNESSES

- Lack of sufficient computerized information doesn`t allow for adequate teaching and scientific research;
- Insufficient promotion of institutional (educational) programs and international studies to young scientists.

OPPORTUNITIES

- All business institutions are interested in the development of modern technologies which are directed to energy efficiency and environmental protection. Our university can provide it.

- We also have an opportunity to promote international programs and projects connected with these modern technologies;

OPPORTUNITIES

- Our university can provide continuous training courses to specialists dealing with civil engineering and urban environment;
- All Moldavian enterprises have an opportunity to participate in our research and scientific processes;

OPPORTUNITIES

- We can offer and carry out a law project connected with energy efficiency and environmental protection;
- Our laboratories can participate in the energetic and environmental control of equipment and goods which appear in our market;

OPPORTUNITIES

- We can propose energy and environmental control of buildings and installed equipment;
- On basis of everything that has already been said, we have a real opportunity to become a member of the European Community.

THREATS

- Migration of qualified employees to countries with higher potential for economic and technical - scientific progress;
- With the lack of working places, people don`t have any motivation for further studies at master and PhD levels;
- Low level of funding of the educational process from the state budget;

THREATS

- The ageing of qualified staff - young people are not stimulated to work at university because of low salary;
- Lack of exchange student experience in the organization of environmental education;
- Due to the economic and political crisis we can come to environmental degradation.

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Analysis of curriculum undertaken by:

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