# SOME VIEW TO MODERN UNIVERSITY

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# The main principles of a new model of education

**Re-engineering:**

-transform knowledge into main social capital;

-integrate academic and entrepreneurial ideas of students and professors;

-meet international quality standards;

- use contemporary technology, appropriate learning materials and resources.

# The model of university education

-**student–centered teaching**: reduces time spent on lectures and increases time spent in class on activities, engages students in analysis, evaluations, problem-solving, improves students' satisfaction with the learning experience;

-**unified information environment** of the university which is associated with E-University system;

-**integrates various departments and activities:** curriculum management, students management, graduate management, library management.

# How to construct Modern university management model

**Modern university management model includes:**

- an international orientation of the program development,

- international aspects of graduates' employability,

- positioning of the program in education market,

- gender equality and non-discrimination in the relationship with faculty and students,

- intercultural aspects, internationality of faculty and student body, quality assurance and so on.

# What is the target of the model?

**In accordance with the Bologna Process:**

- openness, mobility, quality, accessibility;

- require **cooperation and integration among universities**;

- the formation of unified educational environment (curricula, syllabi, etc.);

- leading to greater **compatibility and comparability** of higher education systems;

- making education easier for learners to be mobile and attracting students and scholars from other continents.

# The model should enable:

- To achieve leading positions in the world market of educational services;

- To integrate academic and entrepreneurial ideas of students and instructor-professor faculty and employees;

- To achieve successful business career;

- A university as a scientific-innovation center;

- To close the gap between university education and fundamental science.

# Main tendencies for improvement of higher education

- transformation of knowledge into main social capital;

-  life-long learning: accessibility, quality of delivery and transparency of information should be ensured;

- student-centered educational technologies: new approaches to teaching and learning, effective support and guidance structures and a curriculum focused more clearly on the learner in all three cycles;

- internationalization of education-cultural change is the first step towards establishing an entrepreneurial culture in higher education institutions.

# The main factors affecting the quality index

- $f_1$ - quality of teaching disciplines (assessed subjectively);

- $f_2$ - provision of educational process with visual aids;

- $f_3$ - provision of educational process by modern lecture halls;

- $f_4$ - practical skills of students, obtained in practical classes, in production practice, in group project training;

- $f_5$ - provision by faculty having a theoretical level and practical experience;

- $f_6$ - the degree of Internet accessibility;

- $f_7$ - the conditions for students' habitation;

- $f_8$ - involving students in creative scientific works;

- $f_9$ - total moral values of ethical norms;

- $f_{10}$ - number and quality of scientific results of university scientists;

- $f_{11}$ - level of material and technical base;

- $f_{12}$ - technology for teaching students (classical or student-oriented).

# Approach based on fuzzy logic to construct the model

**Relationship between the factors mentioned above $f_i$, i = 1, 12 and the quality index Y will be**

$$Y = F(f_1, f_2, \ldots., f_{12}) \quad (1)$$

**Model (1) can be represented as a set of fuzzy rules (If … then) of the following type:**

**If $f_1 = A_{11}$ and $f_2 = A_{12}$ ,…, and $f_{12} = A_{112}$ Then Y $= B_1$**

**If $f_1 = A_{21}$ and $f_2 = A_{22}$ ,…, and $f_{12} = A_{212}$ Then $Y = B_2$.**

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**If $f_1 = A_{121}$ and $f_2 = A_{212}$ ,…, and $f_{12} = A_{1212}$ Then $Y = B_{12}$**

# The aim of a contemporary university model

- **Education chain**: bachelor, master, PhD;

- **E-Education:** methods improving the quality of education, forms of education based on new technologies;

- **International Accreditation**: the recognition that the university maintains quality standards;

- **Teaching Methods:** Tutorials, workshops, demonstration of practical classes, classroom activities, active learning, problem based learning, blended learning, work based learning.

# Steps to improve the Quality of education in the ASOIU

- Development of science in the educational system

- The work on 40 projects of startups of the Startup and Innovation Center

- Students' master the information technologies at the university, on the basis of the resources of reputable companies

- Creation of IT Academy , which was completed by more than 100 young people

- In improving the quality of education in the ASOIU there is also the merit of the invited foreign professors.

# Our achievements

- The biggest achievement of ours, is the establishment of the (UFAZ)

- Accreditation of Educational Programs of Germany (ASIIN)

- Accreditation of European Network for Accreditation in Engineering Education (ENAEE)

- Accreditation of Foundation for International Business Administration Accreditation (FIBAA)

Thank you for attention