

Innovative technologies in teaching General Immunology

Department of General Immunology

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The purpose of modern education model - the optimization of the educational process with the use of innovative technologies.

Ways to achieve:

- 1. The widespread use of information technologies**
- 2. The introduction of active learning methods**



The main purpose of application of the innovative technologies for the Department of General Immunology - achieve unity of educational, scientific and upbringing process.



An interactive class is organized at the department where there is:

- A database on all sections of General Immunology;**
- Film collection with training and educational films;**
- Multimedia lectures on all subjects;**
- Immunology glossary;**
- Tests database, etc..**



In computer class

Students have the opportunity to engage with the base of discipline during the IWST (independent work of students with a teacher)



In computer class

Teacher instructs students before taking
boundary control



Department applies innovative teaching methods, such as:

- **role-playing games ("doctor-patient", "theatrical performance");**
- **open discussion;**
- **conference session;**
- **work in small groups with a written survey;**
- **strategy "everyone teaches everyone";**
- **essay writing;**
- **viewing of educational films;**
- **"Brainstorming" (blitz-test);**
- **perform creative tasks, etc.**



**Interactive teaching
methods**



Work in small groups



Practical classes

Students discuss the topic of the class while watching education film



Department of General Immunology has a book fund on the discipline, a film library with movies from employees of the department, as well as author textbooks and manuals in electronic format.



Author textbooks and manuals from department employees in electronic format.



EMCD was adapted in the department to the purposes of modern education:

- **EMCD in Kazakh, Russian and English, developed in accordance with the new concept of education;**
- **Introduce innovative teaching methods in the teaching materials;**
- **Implements the policy by introducing trilingual glossary in 3 languages in EMCD lecture complex.**



Innovation in the department, helping to implement trilingual policy in KazNMU is recommendation to students to work with the glossary, placed in EMCD lecture complex that:

- **Teaches analysis, synthesis and generalization;**
- **Contributes to the accumulation of communicative experience;**
- **Generates educational interest;**
- **Instills research skills;**
- **Teaches work with literary sources;**
- **Promotes the development of thinking.**



An important place in the concept of education belongs to the humanization of education.

In this connection, at the Department of General Immunology:

- creates a good environment for students, contributing to self-improvement and self-realization of the individual student;**
- brought up the desire for self-development, the competitiveness of creative students.**



In addition, in order to integrate the educational process to the scientific, staff of the department:

- **Implement the results of scientific research in the educational process;**
- **Seeks to raise interest in the subject among students;**
- **Stimulate taking the initiative among students;**
- **Helps formation of observation and curiosity in students;**
- **Foster the desire to learn more.**



Thus, the Department of General Immunology through the introduction of innovative technologies applies their energies to achieving the main values of modern educational process - cooperation between teachers and students.