COORDINATING AND SUPPORTING ROLE OF THE CENTER FOR THE DEAF WITHIN THE UNIVERSITY

BAUMAN MOSCOW STATE TECHNICAL UNIVERSITY

DEPARTMENTS:

- RADIO-ELECTRONICS AND LASER TECHNOLOGY
- INFORMATICS AND CONTROL SYSTEMS
- ROBOTICS AND INTEGRATED AUTOMATION
- ENGINEERING BUSINESS AND MANAGEMENT
- MANUFACTURING ENGINEERING
- FUNDAMENTAL SCIENCES
- BIOMEDICAL ENGINEERING

CENTER FOR THE DEAF

PROVIDES:

Services:

- SUPERVISING
- SIGN LANGUAGE INTERPRETING
- AUDIOLOGICAL MONITORING & PROSTHESIS
- SPEECH THERAPY
- TUTORING
- COUNCELING
- NOTETAKING
- PSYCHOLOGICAL MONITORING
- CONSULTING
- ADVISING
- TECHNICAL DEVICES SUPPORTING

MULTIMEDIA LAB

SELF - INSTRUCTION LAB

DEAF STUDENT

Curriculla

SPECIAL

SPECIAL REHABILITATION AND EDUCATION COURSES

STANDARD

AUDIOLOGICAL MONITORING ROOM

SPEECH CORRECTION ROOM

Preliminary courses

ACHIEVEMENTS OF PEN-RUSSIA LAB IN 2003


TEACHER'S WORKSTATION


ASSISTANT'S WORKSTATION


STUDENT'S VIEW


DEVELOPER'S WORKSTATION

The lab was founded in co-operation with NTID (USA) granted by Nippon Foundation within the frame of Postsecondary Education Network International Project

Laboratory Staff - 3 people

Tasks.

Development, management and support of education and rehabilitation process based on new technologies

Development and implementation of network technologies
Development and implementation of distance learning technologies
Development and implementation of special software and multimedia products

Development of methodic materials

Development of learning courses, curricula and teaching methodic
Personnel training and development of teachers' skills

Co-operation with partner organizations (Russian and foreign)

Using the Lab as education and production complex

Investigation and assessment of outcomes

Outcomes.

Formal and informal Course Use

35 hours of formal lessons per week according to student curriculum.
7 hours per week were assigned for consulting teachers (to teach them to use technologies)
12 hours per week were assigned for self-instruction for students.

Other activities

Common network with the Center was created
Essentials of distance learning system were created
2 educational movies were produced
1 electronic tutorial was developed
Web mastering course was developed
7 labworks were developed
Methodic materials on using technologies for the deaf were developed

9 Workshops were held at PEN Lab:
2 - for partner universities
2 - for audiological specialists;
2 - for special school teachers;
2 - for students, specialized in deaf-and-dumb pedagogy;
1 - developed in collaboration with NTID, for the university faculty

5 school leavers were prepared within *Step into the Future* program for young researchers
.
3 conferences were held
bachelors' diploma defense was held
over 50 presentations of the lab for different institutions were held

And numerous other activities


PRACTICAL CLASS


PRESENTATION


WORKSHOP


CONFERENCE

PHYSICS FOR THE DEAF
AT BAUMAN MOSCOW STATE TECHNICAL UNIVERSITY

EDUCATION STRUCTURE ON PHYSICS AT UNIVERSITY

PHYSICS BASIC COURSE
THE SAME FOR ALL DEPARTMENTS
2nd,3rd,4th semesters

2nd semester
The Mechanics,
The Molecular Physics,
The Thermodynamics

3rd semester
The Electromagnetism,
The Wave Optics.

4th semester
The Quantum Mechanics,
The Solid State Physics,
Physics of the Atomic Nucleus and Elementary Particles

APPLIED PHYSICS
FOR ALL DEPARTMENTS
5th, 6th semesters

The Thermodynamics and Electrodynamics of Continuous Media,

The Electronics Physical Base,

The Mathematical Physics etc.

SELECTED CHAPTERS OF PHYSICS
ORDERED BY CHAIRS

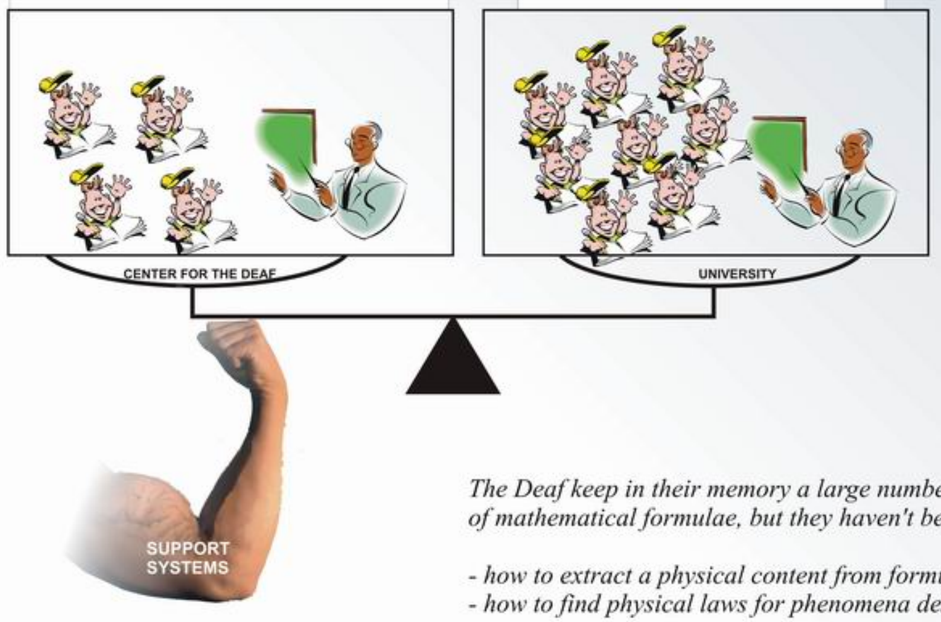
The Physical processes in micro structures,
The High Temperature Process Physics,
The Experimental Methods of Physical Research etc.

Bachelor's degree

Master's degree

Curriculum Structure for the Center for the Deaf, in hours

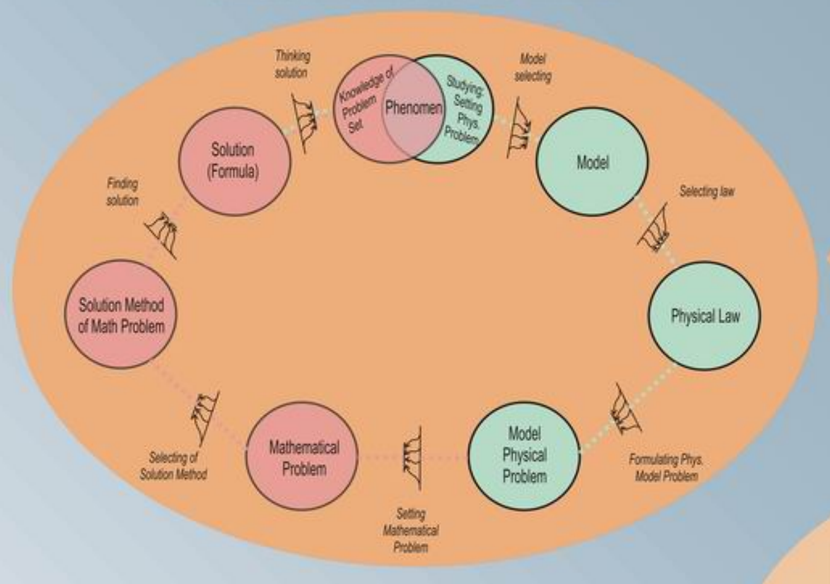
Curriculum Structure for the University, in hours



The Deaf keep in their memory a large number of mathematical formulae, but they haven't been instructed:

- how to extract a physical content from formulae,
- how to find physical laws for phenomena descriptions

STANDARD SCHEME OF HEARING PEER'S ACTIONS WHILE CONSIDERING PHYSICAL PROBLEM



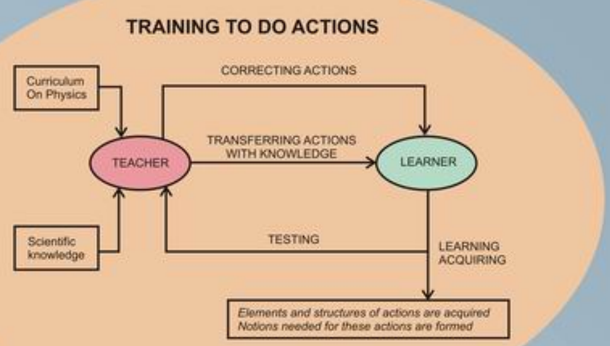
An efficiency of training depends on the learner involving power into actions; knowledge is formed because of some processes in learner's psychic, so knowledge is setting up in their brain because of learner's just own activity;

The mental actions set:
analyzing, synthesizing, comparing, classifying, systemizing, generalizing, abstracting, concretizing etc.

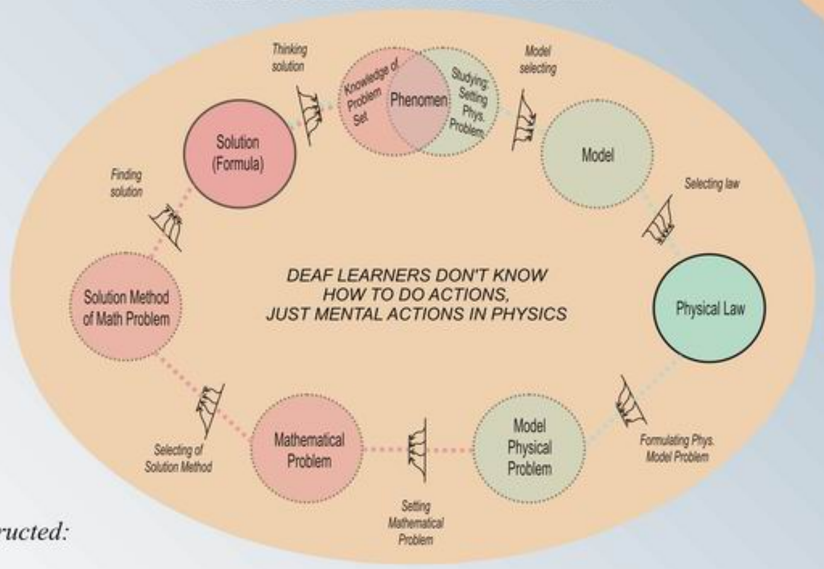
Activities on physical laws base

Activities on mathematic rules base

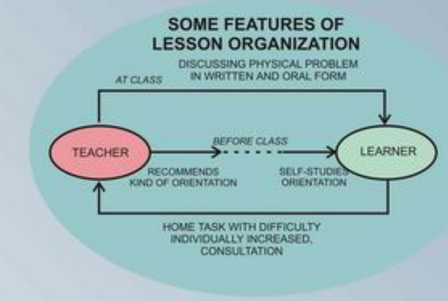
TRAINING TO DO ACTIONS



TYPICAL SCHEME OF DEAF'S ACTIONS WHILE CONSIDERING PHYSICAL PROBLEM



SOME FEATURES OF LESSON ORGANIZATION



BAUMAN MOSCOW STATE TECHNICAL UNIVERSITY
CENTER FOR THE DEAF

Development of Network Educational System for the Deaf on basis of the PEN-International experience

RUSSIA

Moscow

In Russia about 12% of population are hearing impaired
Over 600 000 children are hearing impaired
There are 177 special schools for hearing impaired
(90 - for the deaf, 87 - for the hard-of-hearing)
20 200 hearing impaired children study there
About 20 000 hearing impaired children study in common schools

Federal Head Education and Methodic Center for the Deaf (Bauman University, Moscow)

Centers of Higher Education, in which the deaf are studying (3 Universities)

Schools and colleges for the deaf (189 Schools)

Bauman University is an Education Methodic Association (EMA) that provides standards for higher professional education for the deaf in Russia.
EMA coordinates, controls and develops contents of all education and rehabilitation programs for all universities educating deaf students.