MODERN TECHNOLOGY OF TRAINING SYSTEMS FOR SATELLITE NAVIGATION
NEW TECHNOLOGIES INTRODUCTION

- KNOWLEDGE INTEGRATION;
- INTERACTIVE ACCESS TO INFORMATION RESOURCES;
- EFFECTIVE COMMUNICATION;

PROFESSIONAL DEVELOPMENT AND TRAINING
MODERN EDUCATION

- TRAINING
- UNDERSTANDING
- NEW EXPERIENCES
TRAINING SYSTEMS FOR AVATORS AND MARINERS
HIGHER EDUCATION FOR SATELLITE NAVIGATION IN RUSSIA

1. ITMO University, Saint-Petersburg
2. Moscow State University of Railway Engineering (MIIT)
3. Siberian State University of Geosystems and Technologies (SSUGT), Novosibirsk
4. Bauman Moscow State Technical University
5. Russian Federal Space Agency - Moscow Agricultural Academy named after K.A. Timiryazev
6. Russian State Agrarian University
8. Saint-Petersburg State University of Aerospace Instrumentation
9. Admiral Makarov State University of Maritime and Inland Shipping
10. Young cosmonauts club n.a. G.S. Titov
11. Baltic State Technical University "Voenmeh" D.F. Ustinov
MODERN EDUCATION
MODERN TECHNOLOGY TRAINING SYSTEMS:

systems, devices, equipment, software for effective data processing and presentation during the learning process.
TRAINING SYSTEMS

- Electronic interactive learning system
- Automated learning systems
- Interactive electronic technical manuals
- Training Systems
ELECTRONIC INTERACTIVE LEARNING SYSTEM «CLASS»

- INSTRUCTOR WORKSPACE
- TRAINEES WORKSPACES
- PANORAMIC SCREEN
- DATABASES
ELECTRONIC INTERACTIVE LEARNING SYSTEM «CLASS»
INTERACTIVE TOOL FOR LEARNING MATERIALS CREATION, KNOWLEDGE LEVEL CONTROL AND ACADEMIC PROCESS MANAGEMENT

- INDIVIDUAL TRAINING
- COOPERATIVE LEARNING
- MULTILEVEL LEARNING PROCESS
- MODULAR LEARNING PROCESS
- CREATING AND EDITING OF LEARNING MATERIAL
- E-LEARNING
- INTEGRATION WITH OTHER TRAINING SYSTEMS
- PROCESS MODELING
- ELECTRONIC TEST SYSTEM
- LECTURE BROADCAST STREAM TO THE PANORAMIC SCREEN AND INDIVIDUAL MONITORS
ELECTRONIC INTERACTIVE LEARNING SYSTEM «CLASS»

FUNCTIONALITY

• Support and skills development;
• Technical support of HI-tech systems.

UNIQUE INTERACTIVE MEDIA

• Realistic simulation of 3D space;
• Text and graphics INFORMATION output.

Advantages of LEARNING SYSTEM

• Innovative interactive technologies;
• Time and costs saving;
• Access to remote information resources;
• Permanent training systems;
• High quality of education.
ELECTRONIC INTERACTIVE LEARNING SYSTEM «CLASS»
AUTOMATED LEARNING SYSTEMS

Generating of INFORMATION AND COMMUNICATION MODELS

- Creating and editing of educational materials;
- Study task assigning;
- Students personal data storing;
- Academic performance rating;
- Monitoring of teaching and learning activities.
AUTOMATED LEARNING SYSTEMS
INTERACTIVE ELECTRONIC TECHNICAL MANUALS

PORTAL FOR MANAGING TECHNICAL DOCUMENTATION

- OPERATION AND REPAIR RULES LEARNING;
- RENDERING OF BACKGROUND INFORMATION;
- EQUIPMENT DIAGNOSTICS AND TROUBLESHOOTING;
- AUTOMATED ORDERING OF MATERIALS AND SPARE PARTS;
- ROUTINE MAINTENANCE PLANNING AND ACCOUNTING.
INTERACTIVE ELECTRONIC TECHNICAL MANUALS
INTERACTIVE ELECTRONIC TECHNICAL MANUALS
TRAINING SYSTEMS

mandates the use of specific teaching methods for coursework; the choice of the teaching methods to be used depends largely on the information or skill being taught and the aptitude and skills of the trainee.

• SOFTWARE

SOFTWARE SIMULATING THE HARDWARE INTERFACE EQUIPMENT

• HARDWARE AND SOFTWARE

EQUIPPED WITH THE REAL CONTROL GEAR
EDUCATIONAL COMPLEX

- CREATION OF TRAINING SYSTEM FOR PROFESSIONAL STAFF MEMBERS IN SATELLITE NAVIGATION FIELD;
- NEEDS AND SKILLS DEVELOPMENT MONITORING;
- INTRODUCTION OF EDUCATIONAL PROGRAMS AND TEACHING MATERIALS;
- DEVELOPMENT AND IMPLEMENTATION OF KNOWLEDGE EVALUATION METHODOLOGY;
- INTRODUCTION OF E-LEARNING;
- CAREER GUIDANCE.
EDUCATIONAL COMPLEX

EDUCATIONAL PROCESS SUPPORT

TRAINING

METHODICAL

ORGANIZATIONAL
EDUCATIONAL COMPLEX

- CREATING AND EDITING OF LEARNING MATERIAL;
- ELECTRONIC TEST SYSTEM;
- STUDENTS PERSONAL DATA STORING;
- ACADEMIC PERFORMANCE RATING;
- MONITORING OF TEACHING AND LEARNING ACTIVITIES;
- INTEGRATION WITH OTHER TRAINING SYSTEMS;
- PROCESS MODELING;
- INNOVATIVE INTERACTIVE TECHNOLOGIES;
- TIME AND COSTS SAVING;
- ACCESS TO REMOTE INFORMATION RESOURCES;
- PERMANENT TRAINING SYSTEMS;
- HIGH QUALITY OF EDUCATION.
EDUCATIONAL COMPLEX

CREATION OF SCIENTIFIC AND METHODOLOGICAL BASE
EDUCATIONAL SOFTWARE AND HARDWARE SYSTEMS

INDUSTRY COMPANIES

RESEARCH INSTITUTE

GENERAL KNOWLEDGE DATABASE

INTEGRATION OF EXISTING AUTOMATED INFORMATION AND TECHNOLOGICAL SYSTEMS

VIRTUAL MODELS AND MONITORING SYSTEMS

EDUCATIONAL COMPLEX

EDUCATIONAL COMPLEX

EDUCATIONAL COMPLEX

EDUCATIONAL COMPLEX

UNIVERSITIES