

## RESEARCH LABORATORY OF FUNCTIONAL ABILITY PHYSICAL QUALITY

### Regulation

### Action Guidelines

- Structure of technical resources, development of movement control and fitness control
- Vibrostimulation impact on the nervous system
- Vibrostimulation impact on physical properties using counter-shock method
- Study of leg performance parameters in heavy athletics
- Control of training intensity in combat sports (sparring)
- Research of lower limb reaction time in combat sports
- The structure of physical abilities and weight lifting control

### Research equipment

- [Isokinetic device REV 9000](#)
- Electromyography Milano
- [Movement control system SIMI Motion](#) (cinematography)
- [Local and biomechanical vibrostimulation devices RE 21, Bison Vibro](#)
- Miotonometry with MYOTON-3
- Functional cardiopulmonary diagnostics

---

## RECREATION RESEARCH LABORATORY (LASE RRL)

### Regulation

### Action Guidelines

- Physical activity and emotions
- Recreational activities for people over 45
- Recreation in sports training

### Research equipment

- [Technical Performance Analysis Software cSwing-2010](#)
- [Shooting Simulator "SKATT"](#)
- [Static and Dynamic Balance Testing and Evaluation Platform - DIGITAL BALANCE ANALYZER \(DBA\)](#)
- [Body Composition Testing and Evaluation &lsquo;&rsquo;Tanita SC 330&rsquo;&rsquo;](#)
- [Athletes Emotional State Evaluation with the Facer Reader 3.0 TM](#)

---

## SCIENTIFICALLY METHODOLOGICAL CENTER OF SPORTS GAMES

### Regulation

### Action Guidelines

#### Research equipment:

- [The start reaction time device &lsquo;&rsquo;Reactime&rsquo;&rsquo; snd Universal, wireless time-keeping device &lsquo;&rsquo;Racetime2&rsquo;&rsquo;](#)
- [Heart Rate Variability Analysis Data Processing Software "Omega"](#)

---

## **KINESIOLOGY RESEARCH LABORATORY (LASE KRL) Regulation**

### **Action Guidelines**

### **Research equipment**

---

## **SPORTS PEDAGOGY AND PSYCHOLOGY RESEARCH LABORATORY (LASE SPPRL)**

### **Regulation**

### **Action Guidelines**

- Psychological skills of athletes' with high achievements
  - Social-psychological factors in athletes' career
  - Children's and youth sports psychological preparedness peculiarities
  - Child's psycho-emotional development in sports
  - Structured interview guideline development for diagnostic operations of sports psychologist
- 
- Parental responsibility for the child's participation in sports and education process
  - Establishment of criteria for assessing the quality of sports classes
  - Content of sports lessons, organization and innovations
  - Sports teacher competence profile
  - Pupils' skills, knowledge and attitude to physical education process
  - Creation of register in Latvia for sports teachers who currently work
  - Pupils daily school activities (excluding sports lessons)

Research equipment

---

## RESEARCH LABORATORY OF PHYSICAL CAPACITY (LASE LRLPC)

Regulation

Action Guidelines

Research equipment

---

## SPORT MANAGEMENT RESEARCH LABORATORY (lase smrl)

Regulation

Action Guidelines

- Socio-economic Factor impact on the Health Sector
- Sports law
- Support resources required for the development of Sports Industry
- Sports Industry Management process

---

## RESEARCH LABORATORY OF INFORMATION AND COMMUNICATION TECHNOLOGIES

### Regulation

#### Action Guidelines

- LASE Department of Computer Science Ideological Distance Learning Centre (software) and infrastructure (technical) base optimization Feasibility Studies

#### Research equipment

- INTERNET server HewlettPackard PROLIANT ML350G5  
<http://servis.lspa.lv:333/index.html>
- Uninterrupted power supply APC Smart-UPS 1000VA
- INTRANET server HewlettPackard NetServer LC II  
<http://fantom.lspa.lv/index.html>
- Overhead projector D125 DLP ACER
- Hard disc drive LACIE DESKTOP 750GB ESATA/USB
- Laptop DELL V1510 15,4"/1,8Ghz/2048MB/160GB
- 14 Computers for Computer class ATEA DESKTO

---

## PHYSICAL THERAPY AND AND SPORTS MEDICINE RESEARCH LABORATORY

### Regulation

#### Action Guidelines

- Physical development, physical fitness, body's functional abilities, health and physical

activity in humans of different age groups

- Adapted physical activities for children and athletes with special needs
- Musculoskeletal systems functional status determination and correction

### **Research equipment:**

- [Latvian manufactured original pedography equipment](#)
- BALREKS support system analyzer (LA)
- Travelator - treadbans Life Fit
- Mechanical veloergometer Monark Ergomedic 839E
- Telemetric Pulsometry system Polar team system
- Newtest Powertimer 300 (Ele-Products Oy,Finland)
- REV – 9000
- Electronic image analysis with the software ArchiCAD
- Alpha-Stim M cranial electrotherapy stimulator
- Dinamometer The Lafayette Manual Muscle Test System (USA)
- Reaction meter RA-1(LT))
- Spidometer with the flow sensor Microlab and computer software
- LACTATscout – lactate concentration determination device
- VIBROMED Local three-dimensional vibration device (LV)
- Hydraulic dynamometer (SAEHAN, S.Korea)
- Kalipers Harpender mechanical (UK)
- Baseline AcuAngle Inclinometer (UK)
- Baseline Bubble Inclinometer (USA)