STUDENT EXCHANGE WITHIN ERASMUS PLUS PROGRAM

TOPOCS

- 3D-scanning and 3D-printing technologies in biomedical engineering
- Development of surgery navigation system
- Design of individual computer planning systems for neurosurgery and rhinology
- Microprocessors medical systems with AVR and Arduino microcontrollers
- Development of software for virtual and augmented reality for medical applications
- BIG DATA methods in analysis of medical information
- 3D image processing (CT, MRT, RAMAN, LSM)
- Data processing for functional diagnostics of breathing
- Design of virtual training systems for CT and ultrasound diagnostics
- Research projects of common interest (within Studien- or Masterarbeit)
- Visits and training in laboratories of our partners:
  1. Kharkiv National Medical University
  2. Kharkiv Institute of Medical Radiology
  3. Institute for Problems of Cryobiology and Medicine
  4. Ukrainian Research Institute of Prosthetics
  5. Institute for Single Crystals
  6. Institute for Low Temperature Physics and Engineering.
- Participation at student conferences within Ukraine (Lviv, Kyiv, Uzhgorod)
- Lectures given by renowned Ukrainian scientists and clinicians
- Student accommodation in the University Guesthouse
- Great possibility to improve communication skills and intercultural competence
- More than 10 years of excellent experience in cooperation with LUH.

Ukraine: email d_bme@nure.ua
www: http://nure.ua/en/department/department-of-biomedical-engineering-bme

Germany: email gryshkov@imp.uni-hannover.de
tel.: 7623822 / 5321342