

THE DESIGN AND TECHNOLOGY OF MICROELECTROMECHANICAL SYSTEMS

An integral part of all the modern "gadgets" is the use of those or other microelectromechanical (MEM) devices. This can be as a variety of sensors (accelerometers, gyroscopes, light sensors and temperature) or actuators (motors, micromirrors, switches etc.).

In the course "Design and Technology of Microelectromechanical Systems", students are introduced to varieties of MEM devices, study the peculiarities of their functioning and design.

An important aspect in the MEM devices design is the understanding of the technology of their production, which is also considered as part of the course.

At the laboratory works, students examine the work of the biaxial accelerometer, differential pressure sensor and galvanometer.