

MICROELECTROMECHANICAL SYSTEMS DESIGN

The academic discipline is devoted to teaching students the principles of designing of devices (microassemblies) which functioning is provided by the combination of different nature elements in a single package, such as microelectronic, micromechanical, optical, acoustic and others components. Within the course students acquire skills of using computer software in order to design the microelectromechanical components for the purpose of analysis and synthesis, methods of calculating the basic types of microelectronic components and methods of control and measurements in microscale, theory of electromechanical analogies and other related issues.