

Characterization of Biomaterials (Biocompatibility) - lecture + exercises (15 h + 15 h, ECTS 2, written exam and presentation)

The goal of the course is to provide students with the knowledge of biomedical materials and their properties (physical properties, surface properties, biocompatibility and biodegradability).

The lecture covers three main groups of biomedical materials: metals and their alloys, ceramics and their composites and polymers, co-polymers and their composites. The main areas of application and requirements for biomaterials will be given.