

The Laboratory teaches the following subjects.

{faq inline}

Biomechanics

(for physiotherapist students in Hungarian and in English)

Topics:

- The definition and history of biomechanics.
- The histological structure of bones, bone forming cells. Biomechanical examination, morphology and function.
- Bone formation, bone development. The modeling and remodeling of bones. Laws of biomechanics.
- Tissue mechanics. Static examination of bones.
- Fracture and healing of bones. The biomechanics of fracture healing. The function and morphology of the bone.
- The skeleton as an organ system. Bone and aging.
- Practical demonstration.
- Consultation.

[More information](#)

Material testing methods of plastics

(for engineer students)

Topics:

- Tensile test.
- Shore hardness test.
- Measurement of density.
- Compression test.
- Bending test.

CAD-CAM, Rapid prototyping

(for orthopaedic surgeon specialist students)

Topics:

- The definition of CAD, CAM, PLM and RP.
- 2D and 3D CAD.
- CAM and CNC technologies.
- Rapid prototyping methods.
- Medical application of the CAD-CAM and RP.

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