RESEARCH PROJECT 2023-2024

Department/Area

Mechanical Engineering

Title/Name

In-vitro mechanical characterization of scaffolds for bone regeneration obtained by stereolithography

Abstract/Description

The objective of this project is to determine the in-vitro mechanical properties of a biocompatible resin. Samples will be obtained by additive manufacturing, more specifically, stereolithography, and they will be characterized by static and fatigue tests after being aged, simulating conditions of the human body at different times.

Prerequisites

Required	Basic skills in Materials Science Lab
Recommended	Mechanical testing and 3D printing knowledge

Supervisor(s)/Tutor(s)

Structure

Format	Semester (extensive, 15 weeks), Summer (intensive, preferably 8 weeks), Both are available
Workload	100 hours (4 ECTS) / 200 hours (8 ECTS)
Students	2