

RESEARCH PROJECT 2023-2024

Department/Area

Mechanical, Materials

[Borrar lo que no proceda]

Title/Name

Comparative analysis of 3D printing materials and human bone

Abstract/Description

Background on 3D printing technologies and materials used in biomedical applications. Importance of mechanical properties in biomedical implants and artificial surrogates and their resemblance to human bone. The objective of the study: to compare the mechanical properties of 3D printed materials with those of human bone.

- Presentation of data obtained from mechanical tests.
- Comparison of the mechanical properties of each 3D printing material with those of human bone.
- Use of graphs and tables for clear and concise data representation.

Prerequisites

Required	Materials Science; CAD
Recommended	

Supervisor(s)/Tutor(s)

Structure

Format	Summer (intensive, preferably 8 weeks),
Workload	100 hours (4 ECTS) / 200 hours (8 ECTS)
Students	2