

RESEARCH PROJECT 2022-2023

Department/Area

Mechanical Engineering

Title/Name

Mechanical characterization of 3D-printed photocurable resin reinforced with Graphene-Based nanomaterials

Abstract/Description

The objective of this project is to determine the mechanical properties of a commercial resin modified with graphene-based nanomaterials. Samples will be obtained by additive manufacturing, more specifically, stereolithography, and they will be characterized mainly by tensile tests, but also some chemical characterization will be carried out (DSC, FTIR...)

Prerequisites

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

Supervisor(s)/Tutor(s)

Name(s)	Dra. Eva Paz Jiménez, Sara López de Armentia Hernández
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Structure

Format	Semester (extensive, 15 weeks)
Workload	100 hours (4 ECTS) / 200 hours (8 ECTS)
Students	2