

# RESEARCH PROJECT 2022-2023

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## Department/Area

Materials

## Title/Name

Design and manufacturing Arcan device to measure shear and tensile properties of polymers and adhesive joints

## Abstract/Description

The project aims to design and construct the necessary parts and elements to carry out the Arcan tests on polymeric and composite materials. These tests are fundamental in characterizing materials in shear or combinations of tensile and shear stresses.

To make this device, additive manufacturing techniques will be used. Finally, tests will be carried out to validate its operation once manufactured.

## Prerequisites

Required	CAD software;
Recommended	3D Printing skills;

## Supervisor(s)/Tutor(s)

Name(s)	Yolanda Ballesteros - JC del Real
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## Structure

Format	Both are available
Workload	100 hours (4 ECTS) / 200 hours (8 ECTS) <i>Both</i>
Students	2

