European Project Semester

PROJECT OUTLINE

Project dates: March – June 2023

Title:

New 3D Printed product Functional Testings

Project activity areas:
Additive manufacturing of low-tech systems, Research & Developments, Product testings

Keywords:
3D printing, additive manufacturing, low-tech equipment, Product testings

Tutor's name and coordinates
Client – End-user: *Infuse Design*
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Project origin
Research, Innovation, Up-cycling, Circular Economy, Environment protection, Ceramics

Project technical background:

Infuse design is a start-up working on low-tech equipment such as "desert fridge" (clay cooling device using evaporation phenomenon) or "oyas" (watering device that uses the porosity of clay to dispense water underground). Thus, ***Infuse design*** is whiling to test the actual properties of the said low-tech devices in order to:

- Make environmental tests (UV, humidity, temperature…)
- Establish a product technical data sheet
- Suggest improvement to the material preparation

Thus, this project implies that the team that may work on this topic set-up experiment to measure and test different properties in order to validate the product. It also means to gather scientific and technical knowledge to carry these experiments and finally the material engineering skills to suggest and implement modification and improvement to these products.

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Studied topics:

- Mechanical engineering
- Material engineering
- Physics
- Material testings