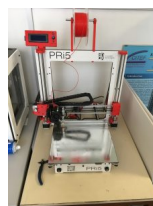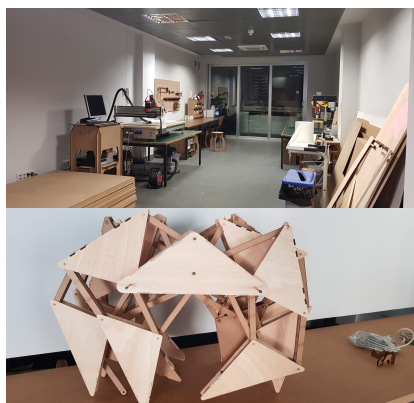# Industrial design and rapid prototyping laboratory (HTSEIT)

MakHTSEIT is a Fab Lab located in the HTSEIT giving service to UPM researchers and students for developing low cost prototypes. It is characterised by its work relating to the circular economy and, in particular, PLA filament recycling.

Contact information

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Technological Offers type

Technological scientific services

Research and innovation areas

- Industry, Materials and Circular Economy

ODS

Available from: 2019

Keywords: | 3d print | 3D printing filament extruder | Cutting plotter | FabLab | Laser cut | paperboard | PLA | Recycling | thermoforming

Scientific and technology services

3D PRINTING

There are several FFD 3D and resin printing devices. Printing with a dual extruder is also possible for pieces with two materials or with input from supplementary media.

LASER CUTTER

There is a CO2 130 W laser cutter for wood, foam, cardboard, methacrylate, and leather, etc., with a 1.7 m x 1.25 m cutting desk.

DEVELOPMENT OF PERSONALISED, SPECIAL AND RECYCLED 3D PRINTING FILAMENTS

There is machinery for obtaining filaments for special applications.

3D SCANNING

There is a precision optical scanner to digitise large elements.

MILLING

There is a 700 mm x 1,000 mm vacuum table milling machine.

Needs requested and applications

We collaborate in producing prototypes to obtain minimum viable products from their manufacture and also improving designs.

Sector or area of application

Eco-design. Circular economy, rapid, digital prototyping

Equipment description

The MakHTSEIT Laboratory is in an annex building at the HTSEIT.

The machinery available is as follows:

- Mill ¿ vacuum table 1000 x 700 mm
- Laser cut table 1900 x 1400 mm
- 6 units FFD 3D printers, one with double extruder
- Resin 3D Printer
- Thermoconforming machine MAYKU
- Cutting plotter 760 mm
- 3D scanner
- 3 computers
- Shredder
- Air Dryer
- 3D printing filament Extruder

Request for service

Send an e-mail to luisa.mtzmuneta@upm.es or david.hidalgo@upm.es