

# Laboratories - Equipment



UNIVERSITY OF WESTERN  
MACEDONIA

FACULTY OF ENGINEERING  
DEPARTMENT OF PRODUCT AND  
SYSTEMS DESIGN ENGINEERING

[ide.uowm.gr](http://ide.uowm.gr)

# Agenda

## Labs

CAD lab

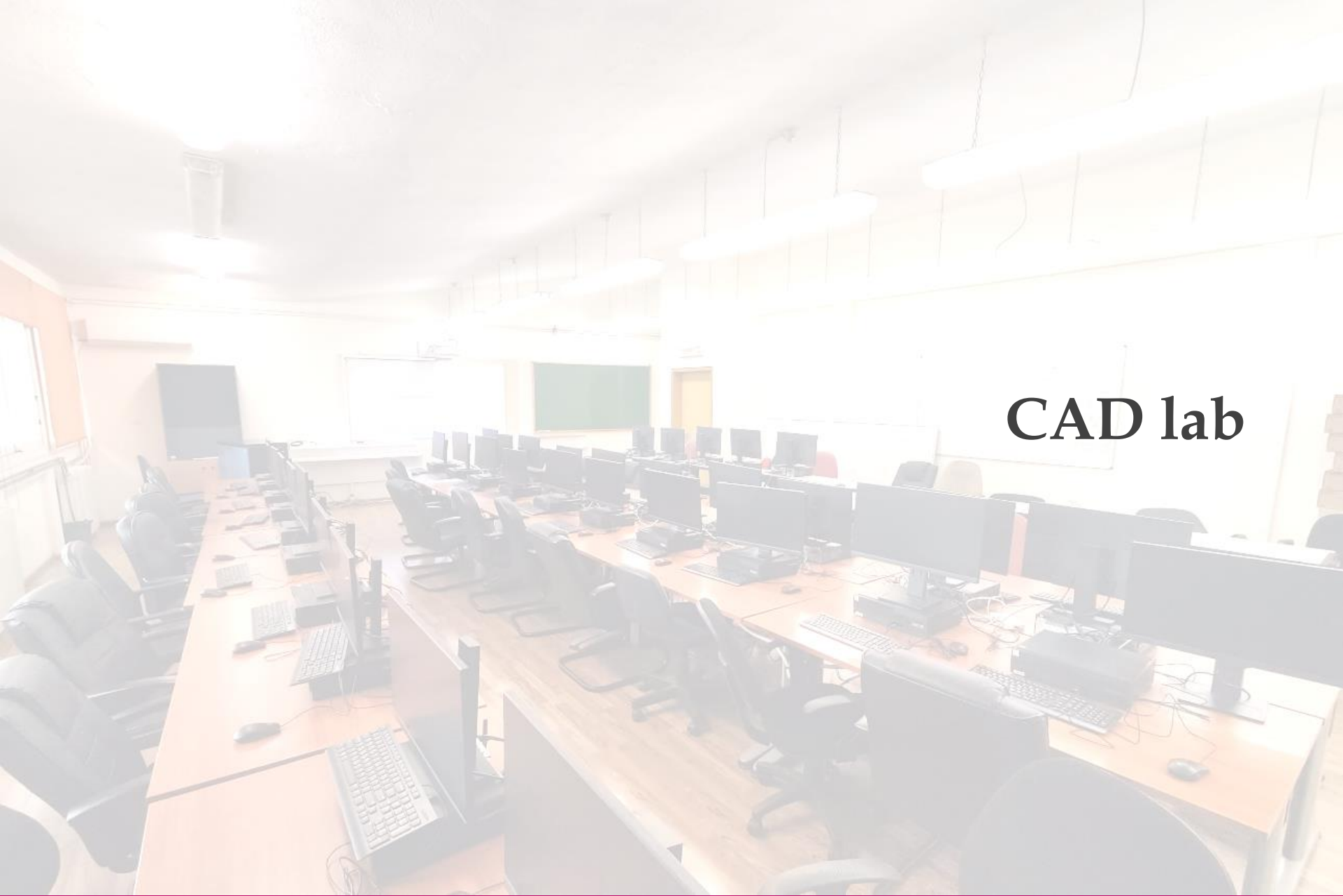
CNC Lab

Digital Fabrication Lab

Prototyping Lab

Technical Drawing Lab

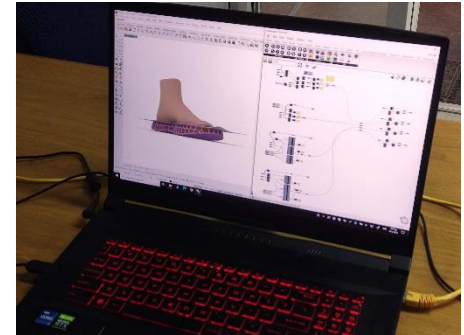
## Additional equipment



# CAD lab

# Laboratories

## CAD Lab

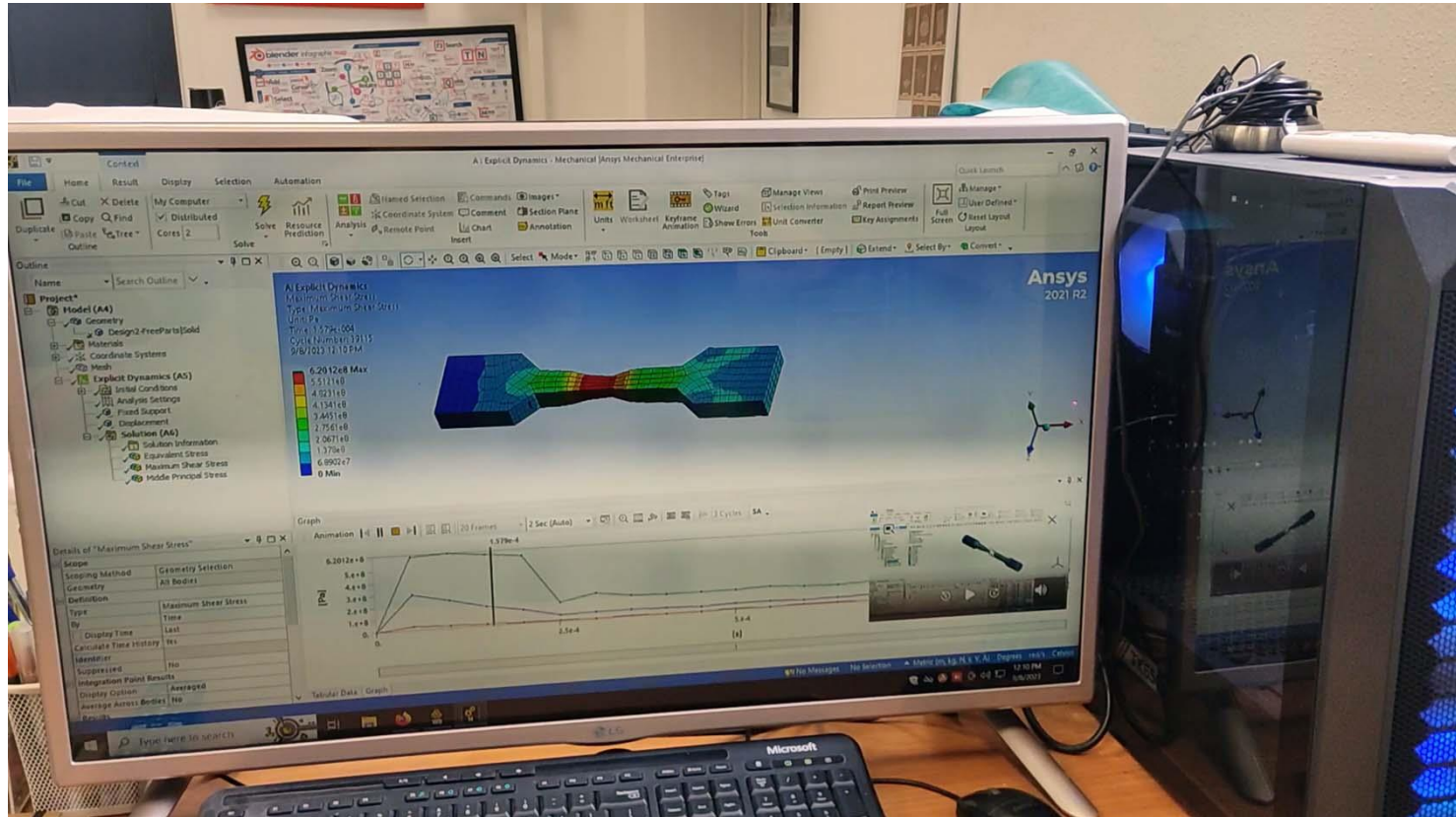


### CAD Lab

(Solidworks, Rhino3D, AutoCAD, Autodesk Inventor, Krita, Inkscape, Blender)

# Laboratories

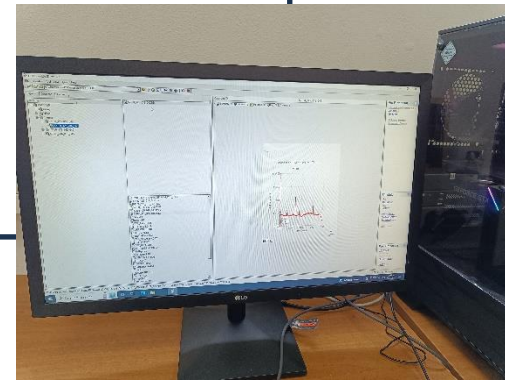
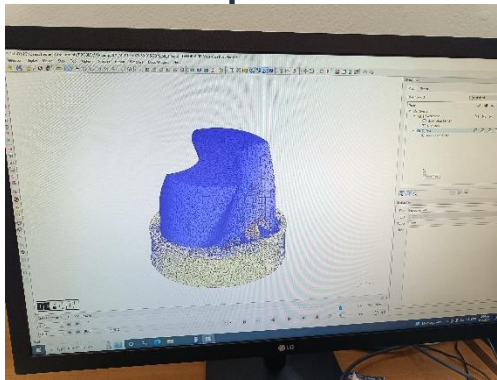
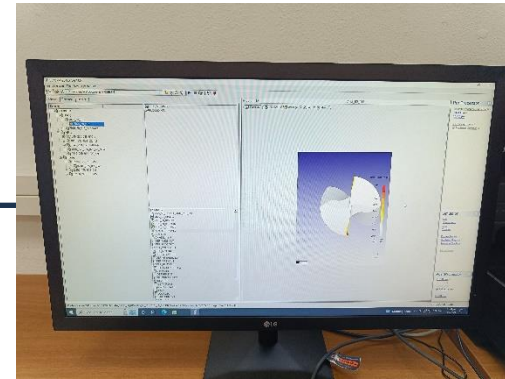
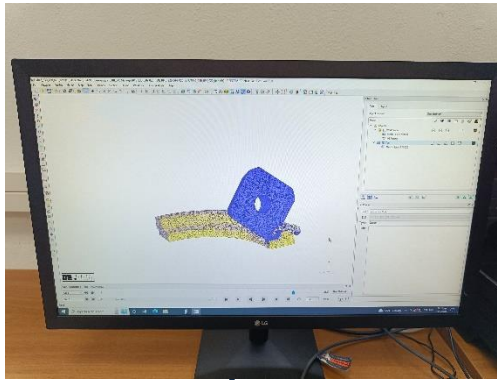
## CAD Lab



CAD Lab - [ANSYS]

# Laboratories

## CAD Lab



CAD Lab - [DEFORM3D]



# CNC lab

# Laboratories

## CNC Lab



CNC Lab

# Laboratories

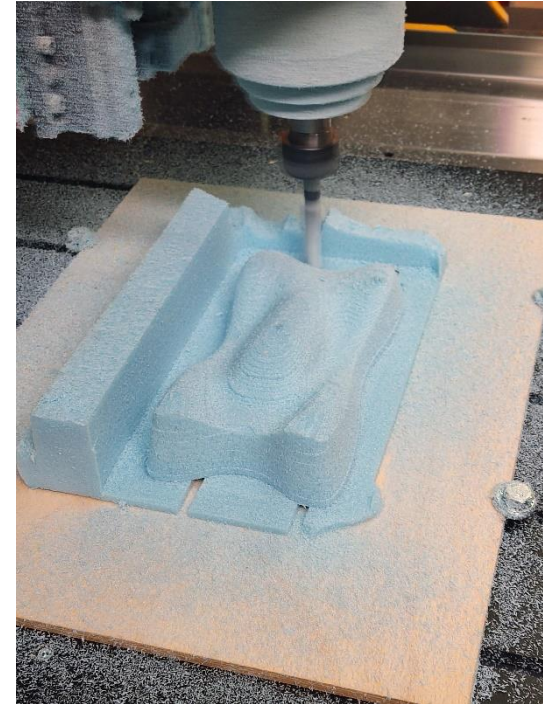
## CNC Lab



CNC Lab

# Laboratories

## CNC Lab



CNC Lab



# Digital Fabrication Lab

# Laboratories

## Digital Fabrication Lab



Digital Fabrication Lab

# Laboratories

## Digital Fabrication Lab



Digital Fabrication Lab (3D printing)

# Laboratories

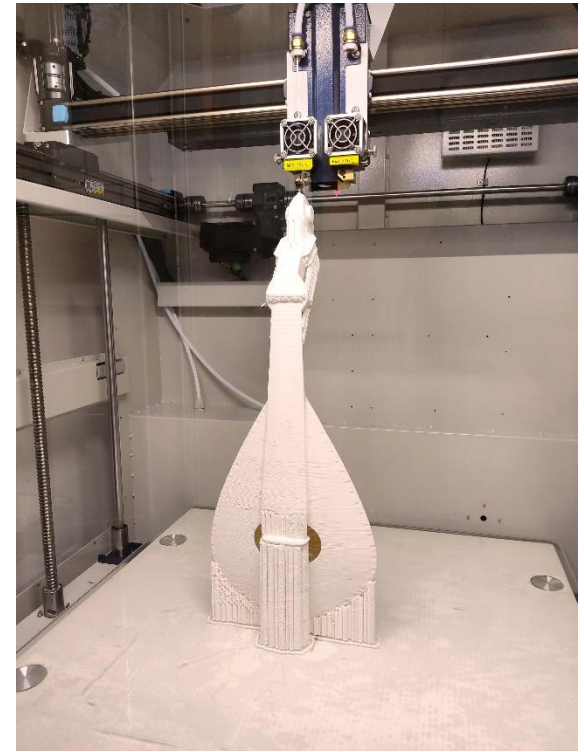
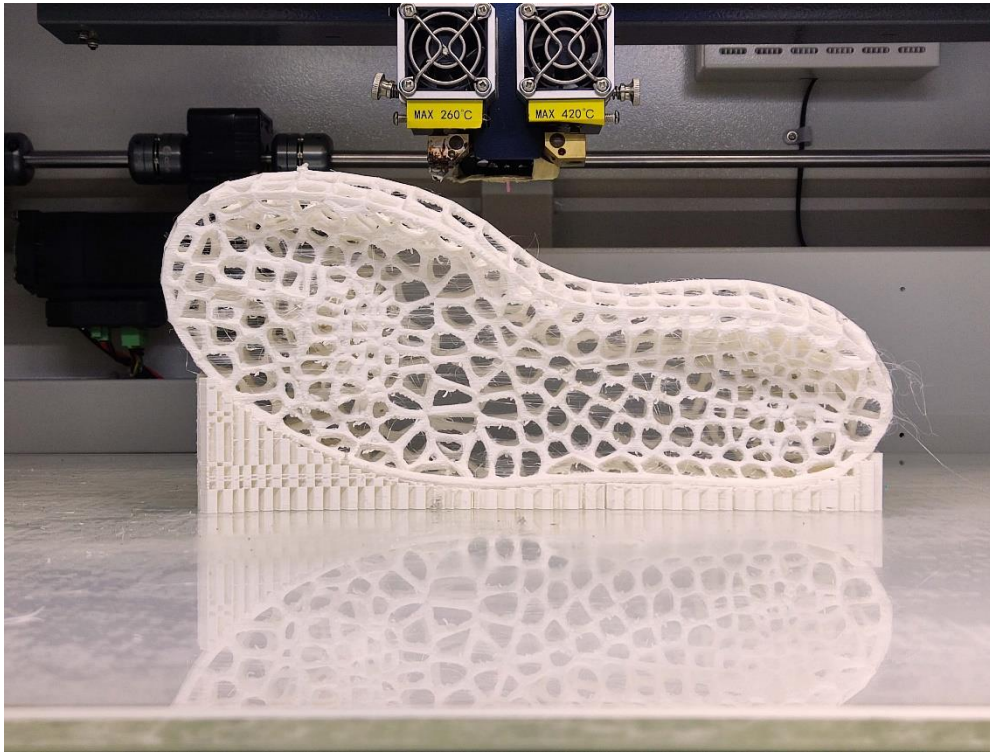
## Digital Fabrication Lab



Digital Fabrication Lab (3D printing)

# Laboratories

## Digital Fabrication Lab



Digital Fabrication Lab (3D printing)

# Laboratories

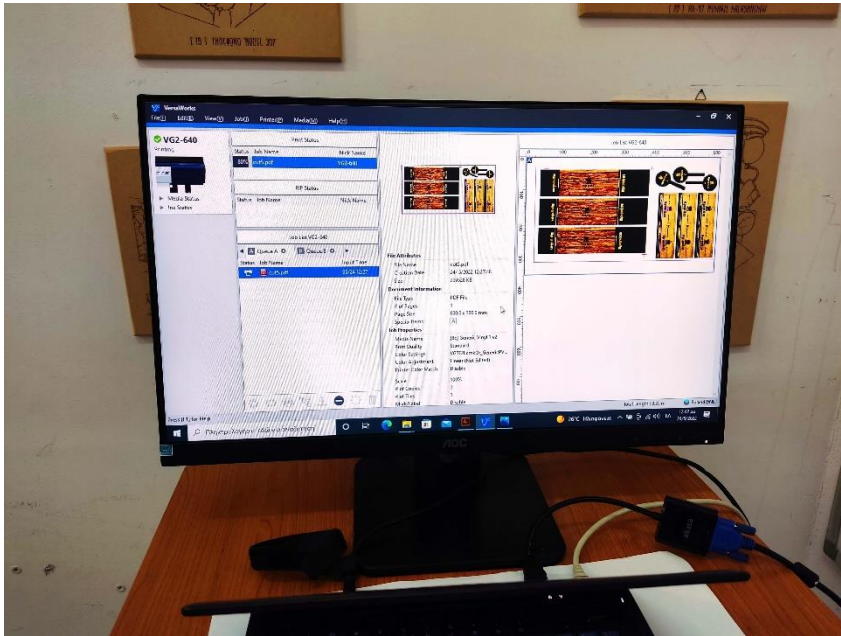
## Digital Fabrication Lab



Digital Fabrication Lab (Laser engraving and cutting)

# Laboratories

## Digital Fabrication Lab



Digital Fabrication Lab (2D digital printing)



# Prototyping Lab

# Laboratories

## Prototyping Lab



Prototyping Lab

# Laboratories

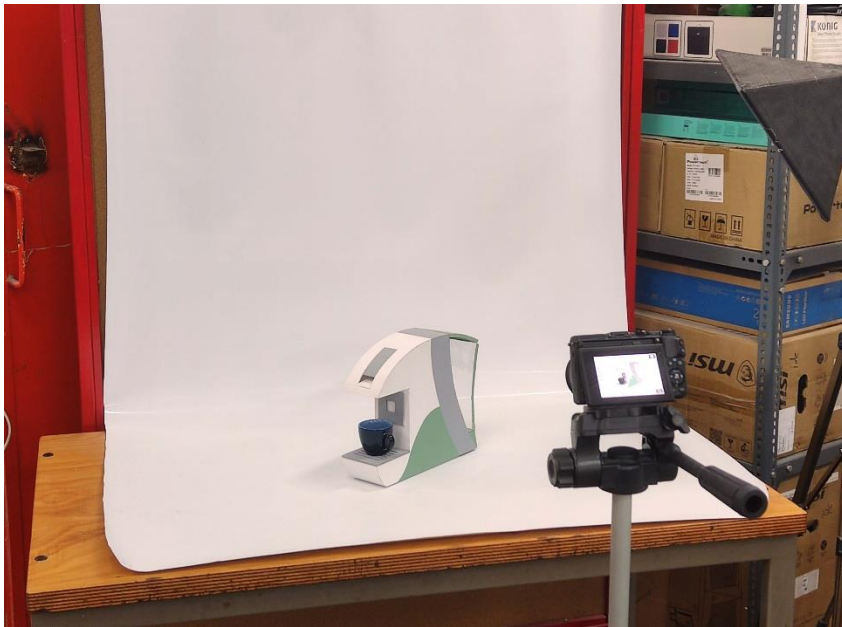
## Prototyping Lab



Prototyping Lab

# Laboratories

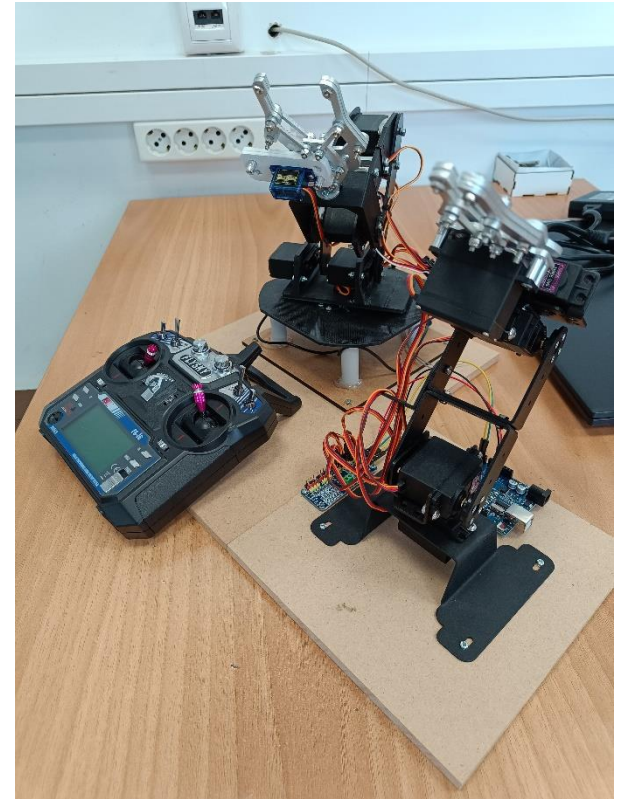
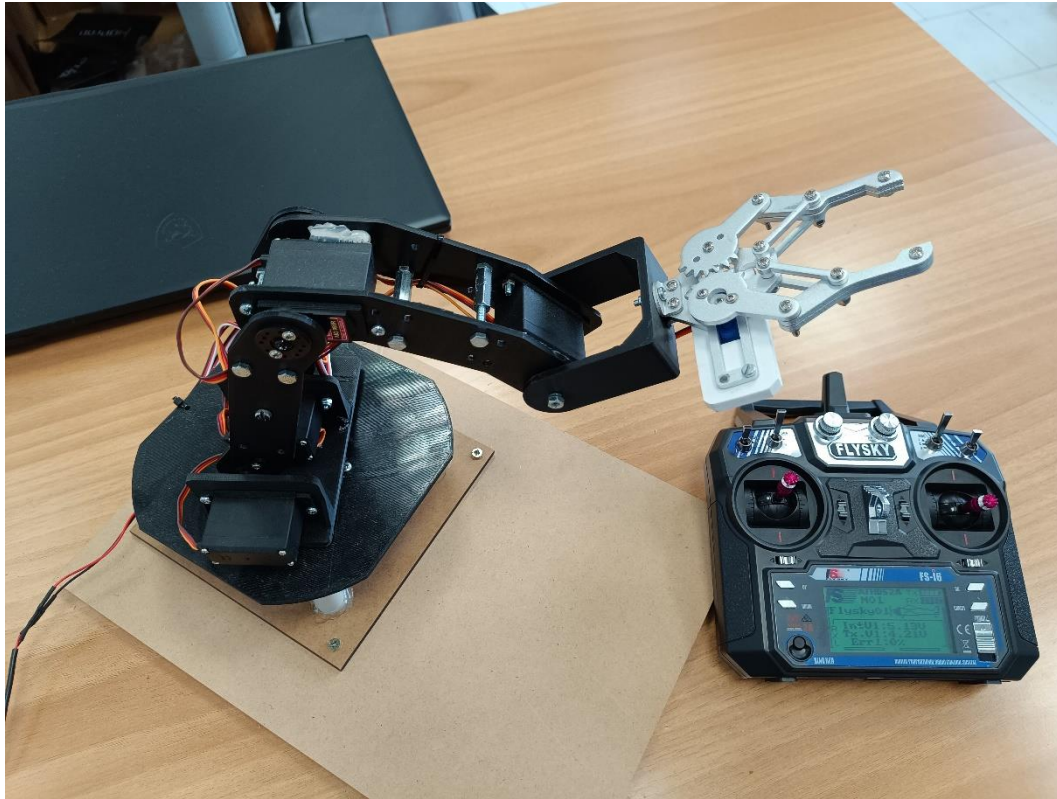
## Prototyping Lab



Prototyping Lab

# Laboratories

## Prototyping Lab



Prototyping Lab

# Laboratories

## Prototyping Lab



Prototyping Lab

A large, empty technical drawing lab. The room is filled with rows of drafting tables and chairs, arranged in a long, narrow layout. The tables are light-colored with dark frames, and the chairs are black with adjustable seats. The room has a high ceiling with long, fluorescent light fixtures. There are windows on the right side with dark curtains. In the background, there are some shelves and a whiteboard. The overall atmosphere is clean and professional.

# Technical-Freehand drawing Lab

# Laboratories

## Technical-Freehand drawing Lab



Technical-Freehand Drawing Lab

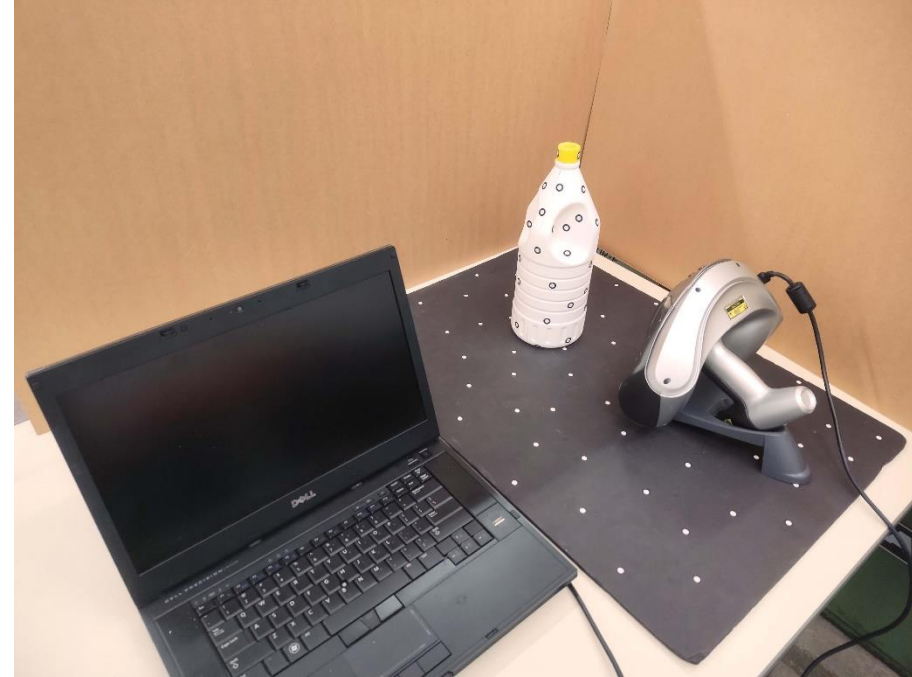
## Additional equipment

# Additional equipment



**Virtual Reality**

# Additional equipment



3D Scanners

# Additional equipment



Roughness Tester

# Additional equipment



Precision Scale



Measurements

# Additional equipment



Tensile test equipment

# Laboratories - Equipment



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