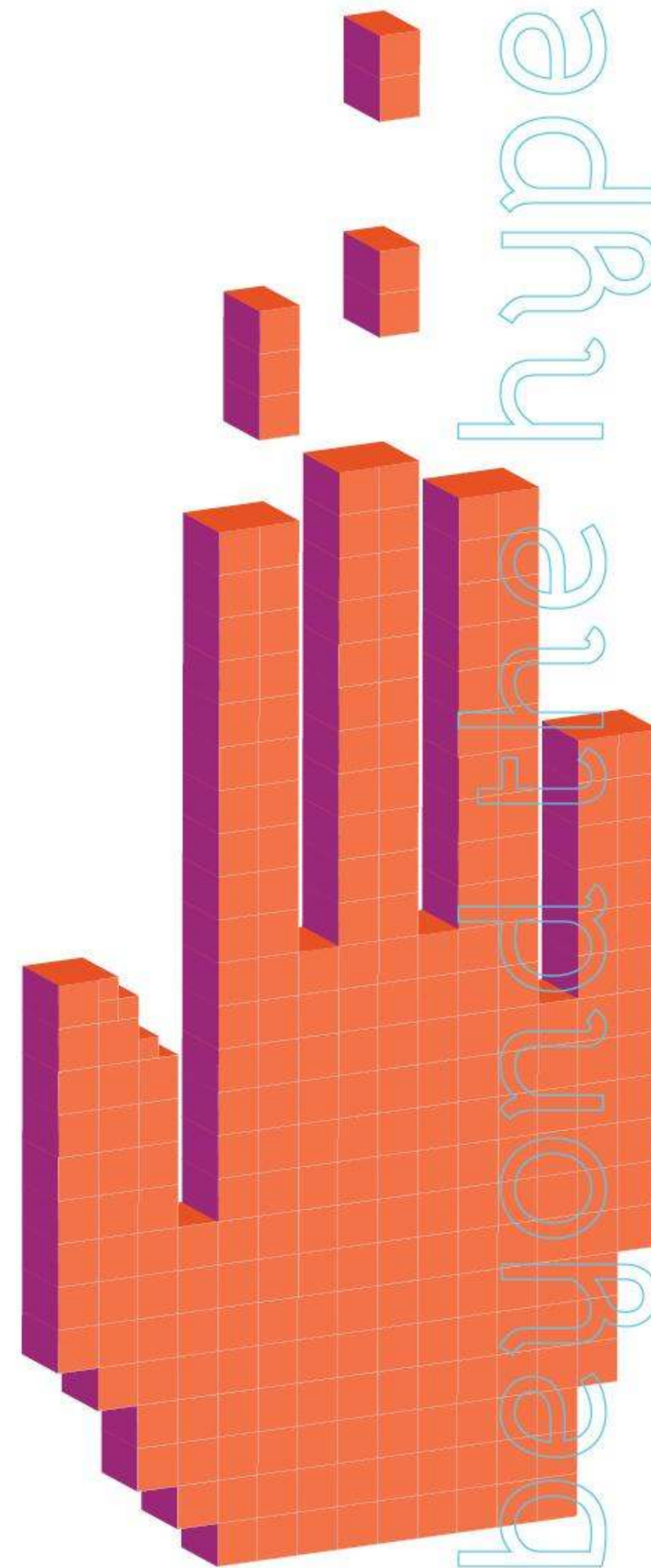


AD ADDITIVE DAYS 2020

BALKAN 3D PRINTING
CONFERENCE

**20-23.FEB.
SOFIA**

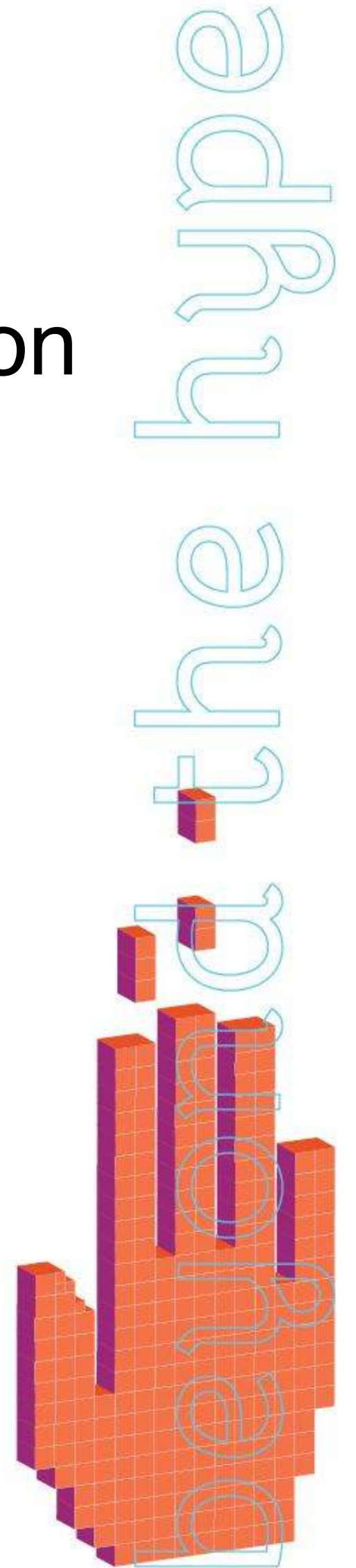
ADVANCED
APPLICATIONS
AND IDEAS
OF DIGITAL
MANUFACTURING



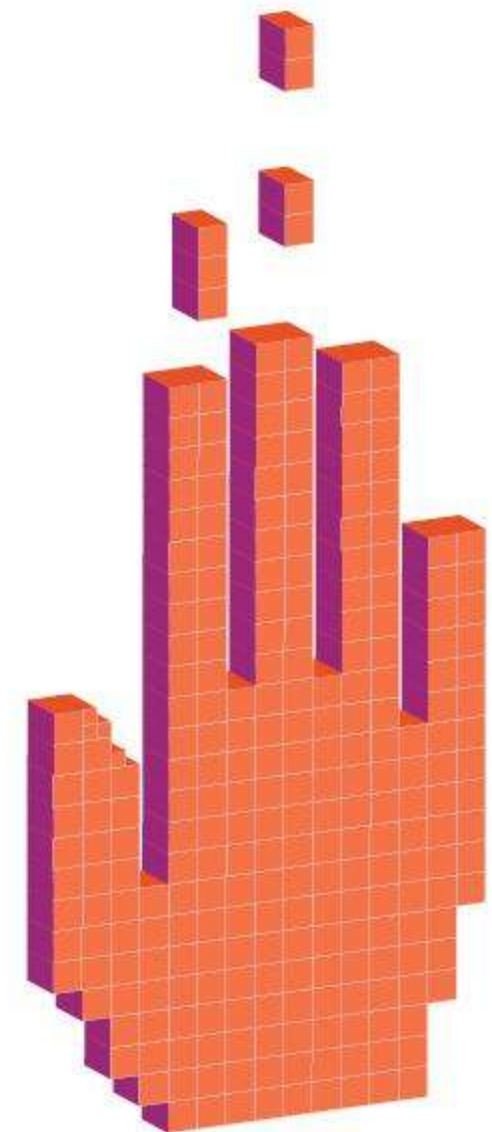


3D technologies at Higher Education “Polytechnic University of Tirana, Albania”

Ph.D Erald PIPERI
Email: epiperi@fim.edu.al



A short presentation of Albania



A short presentation of Albania

Country Overview

Area: 28,750 km²

Type of State: Parliamentary Republic.

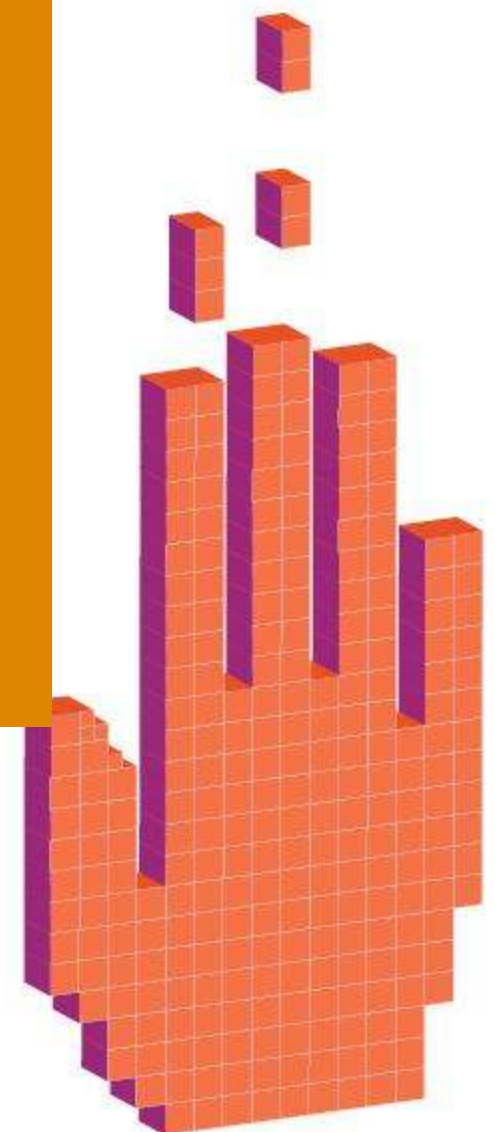
Capital: Tirana

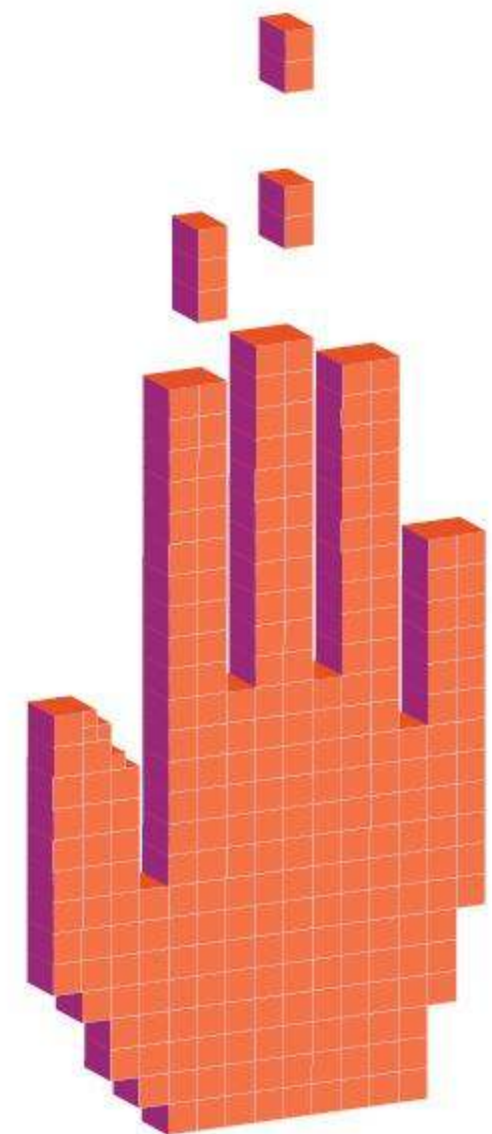
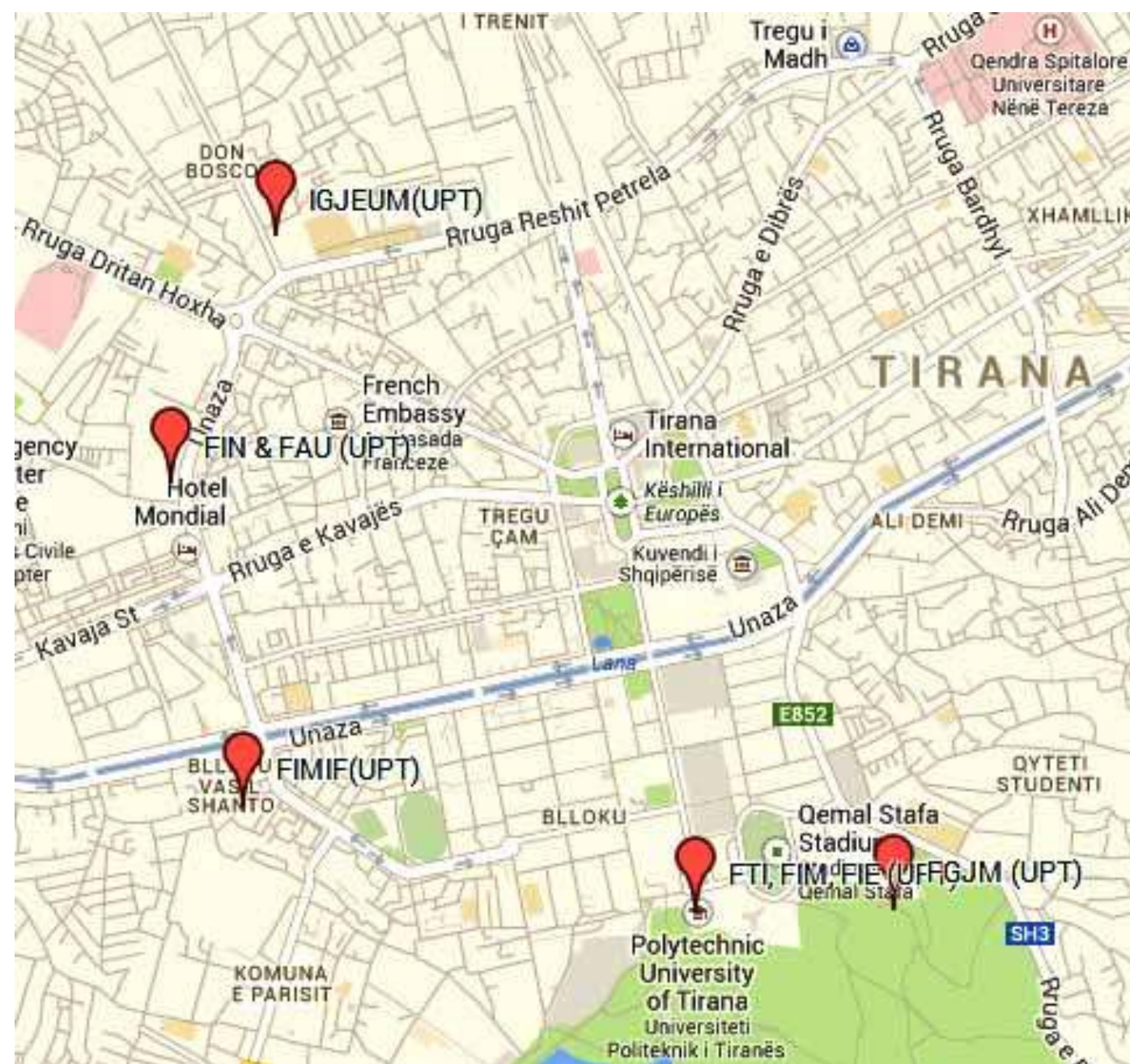
Total Population: 2,934,363

Official Language: Albanian

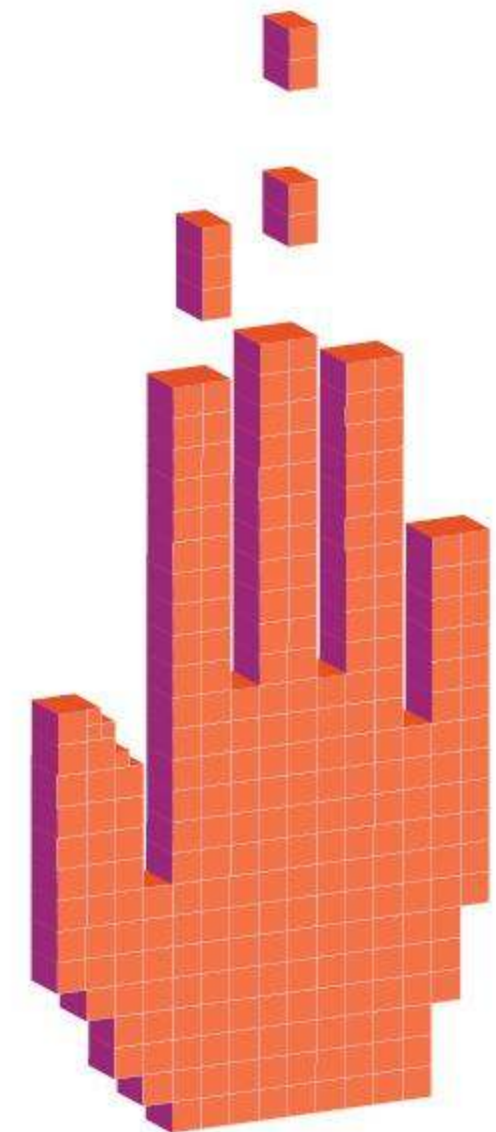
Business Language(s): Albanian.

National Currency: Albanian Lek (ALL)





- ❖ Higher Polytechnic Institute (HPI) was established in 1951. This date marks the beginning of Higher Education in Albania. At that period, three Directions were involved: **Civil, Mechanical and Electrical**.
- ❖ In 1991, during the previous system, all the Engineering Faculties were regrouped and the PUT was founded.
- ❖ In 2007, as a result of the reform initiated by the Albanian government for the reformation of the scientific research in Albania, the structure of PUT changed and currently it consists of:
 1. Faculty of Geology and Mining (FGM)
 2. Faculty of Electrical Engineering (FEE)
 3. **Faculty of Mechanical Engineering (FME)**
 4. Faculty of Mathematical Engineering and Physics Engineering (FME&PhE)
 5. Faculty of Construction Engineering (FCE)
 6. Faculty of Architecture and Urban Planning (FAUP)
 7. Faculty of Information Technology (FIT)
 - 1. Institute of Geo-sciences and Energy, Water and Environment (IGEWE)



Faculty of Mechanical Engineering

<http://fim.upt.rash.al/>

FME is the first Higher School in Albania for the preparation of high specialists in the field of:

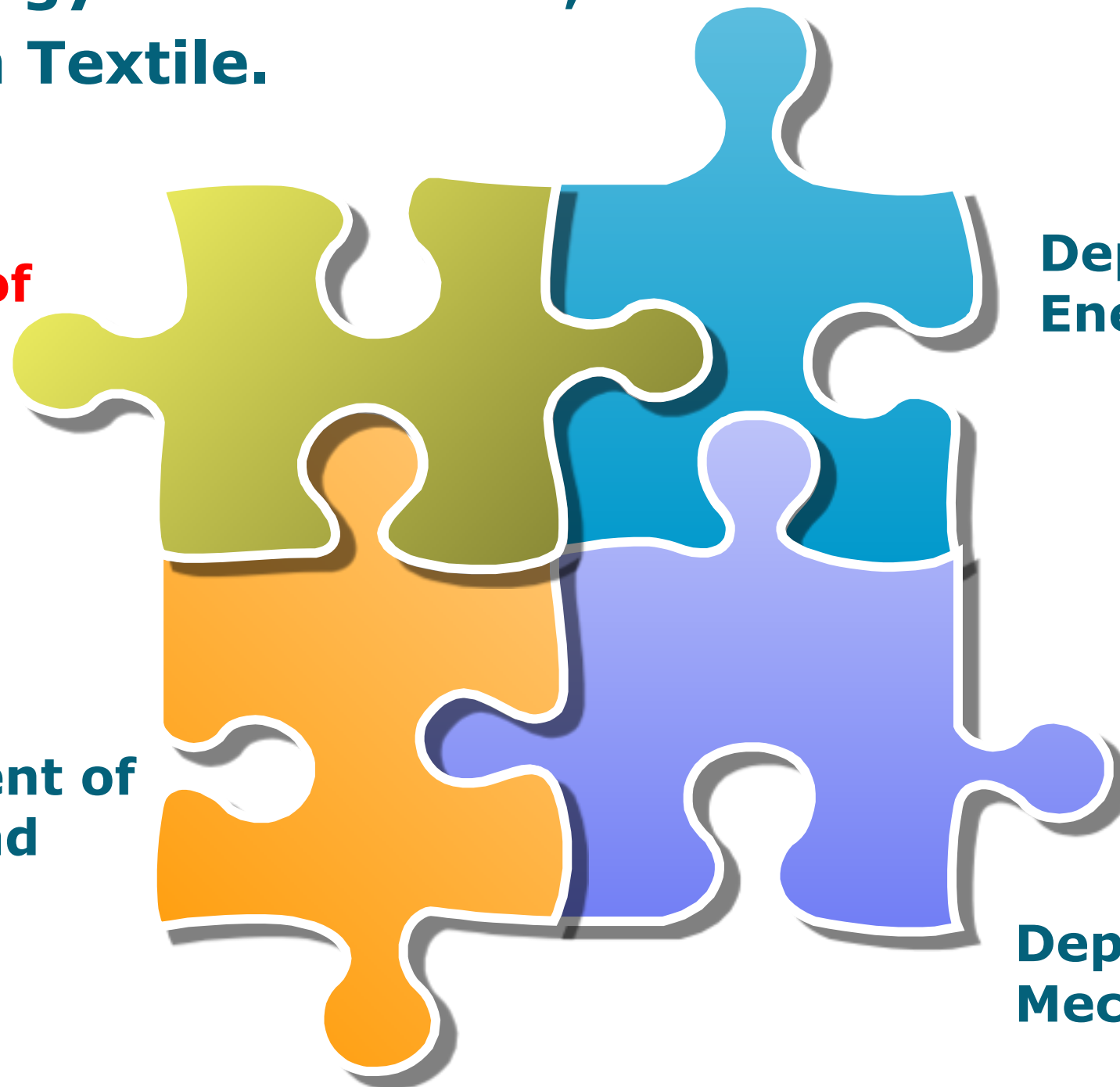
- ❖ **Mechanics,**
- ❖ **Metallurgy and Materials, as well as**
- ❖ **Fashion Textile.**

**Department of
Production
Management**

**Department of
Energy**

**Department of
Textile and
Fashion**

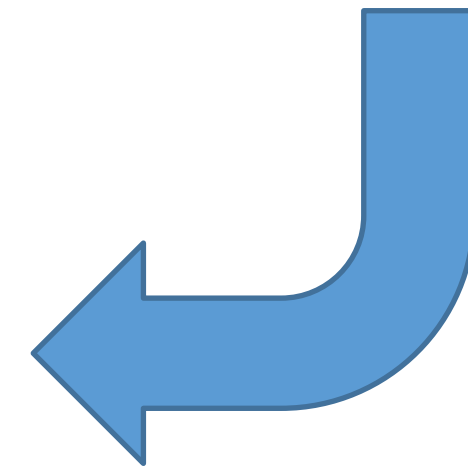
**Department of
Mechanics**



Faculty of Mechanical Engineering

"INDUSTRIAL ENGINEERING"

Rapid Prototyping and RE

[illegible]

"Mechanical Engineering BSc"

CAD – Computer-Aided-Design

Mechanical technology 1/Manufacturing processes I

Mechanical technology 2/Manufacturing processes II

Faculty of Mechanical Engineering

"Textile and Fashion"

Virtual Construction of Models and Prototypes:

- # Cloth Modeling and Simulation

- ## 3D body scanning

- # 3D garment design

- # 3D printing technology and their application in fashion industry as:

- garment,
footwear,
accessories.**

Modeling and Simulation

and their industry as:

Faculty of Mechanical Engineering

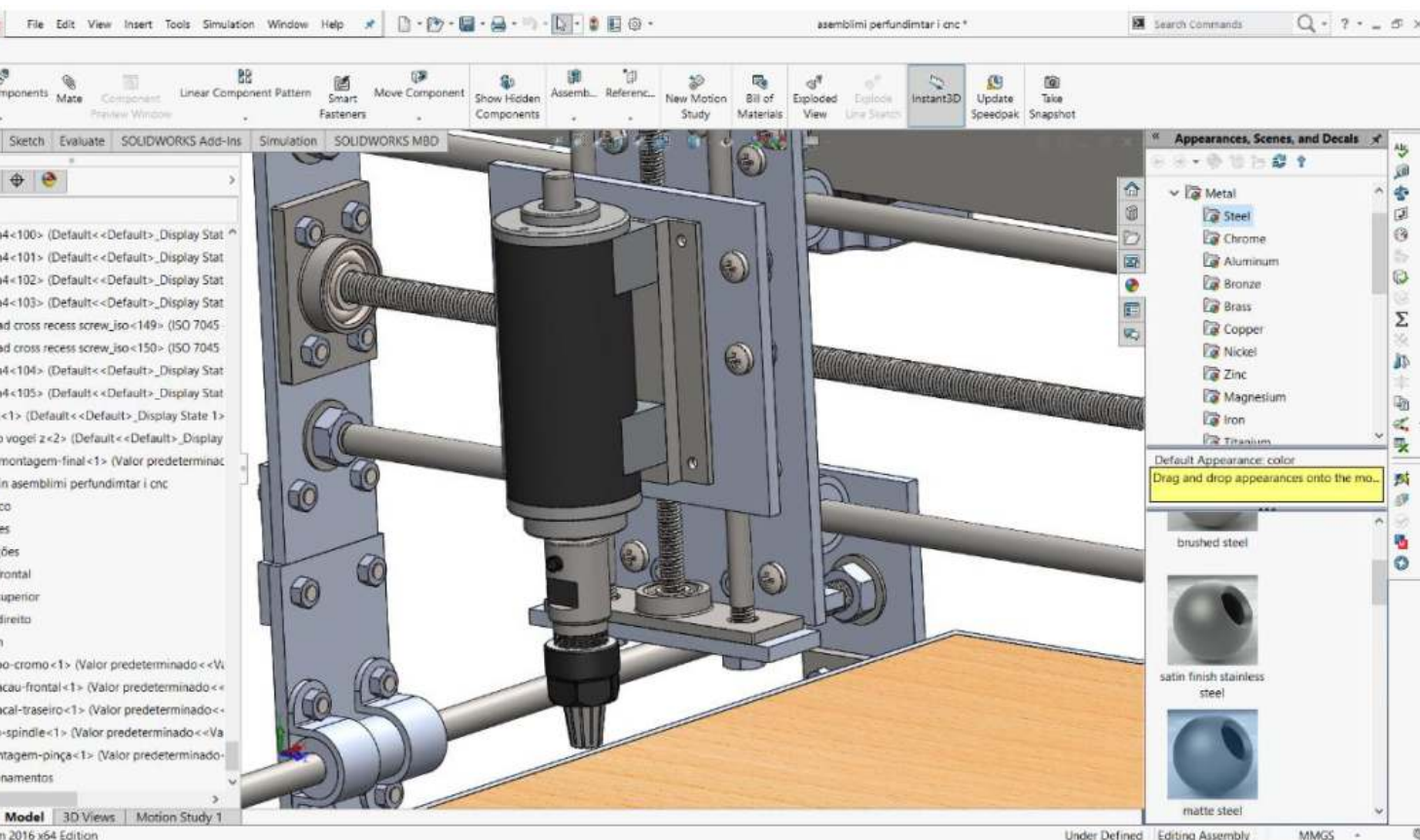


Figure 95 Dërgje 3D e shpindelit

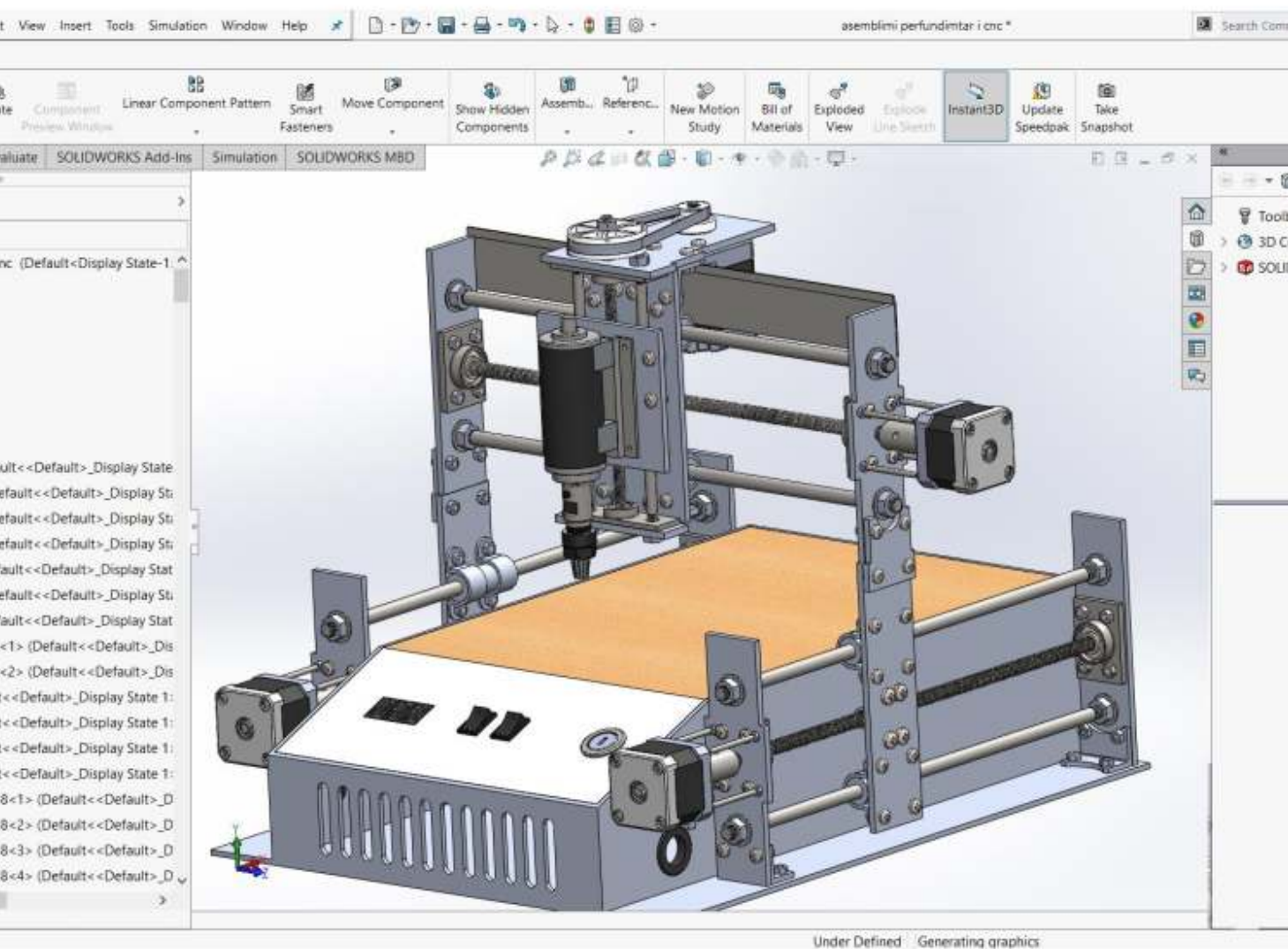
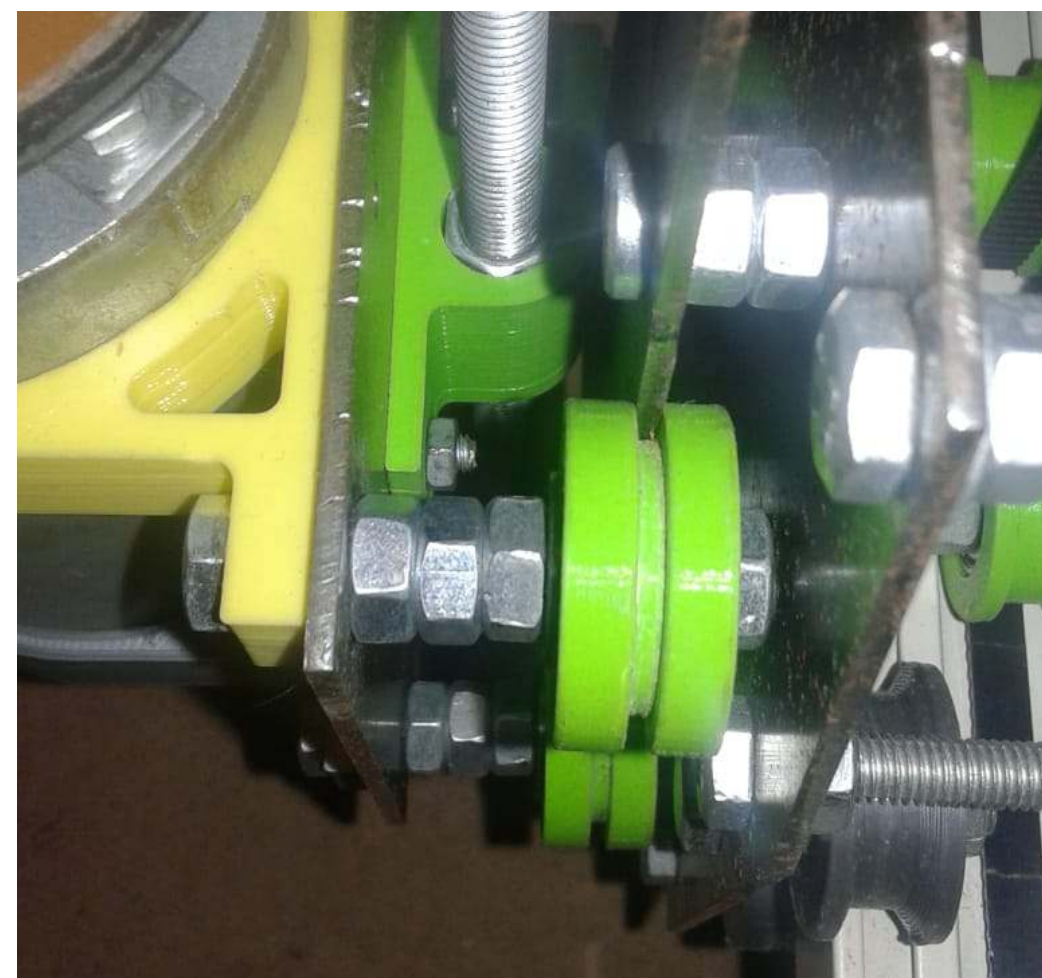


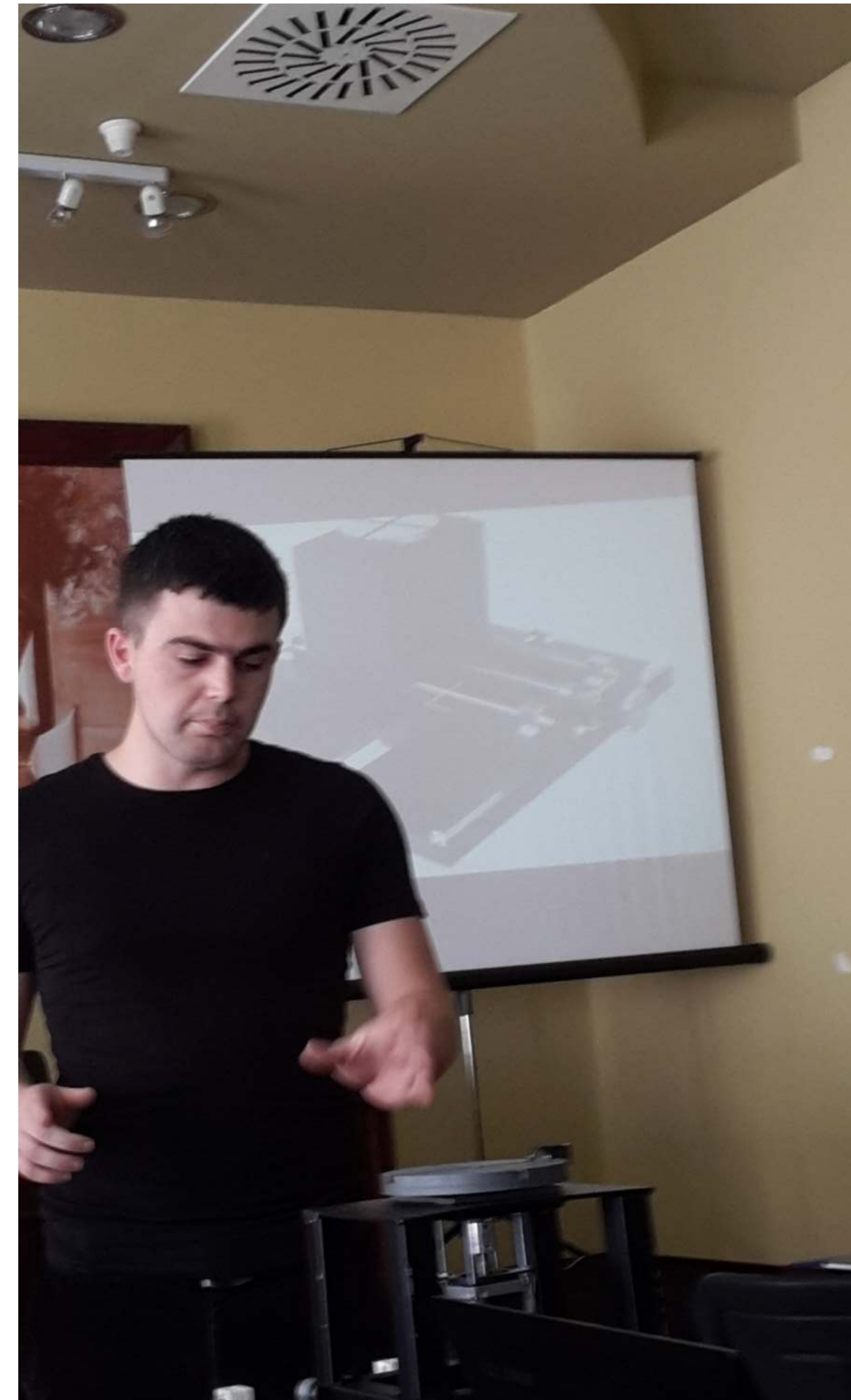
Figure 99 Të gjitha pjesët e prototipit të montuara



Faculty of Mechanical Engineering



Faculty of Mechanical Engineering



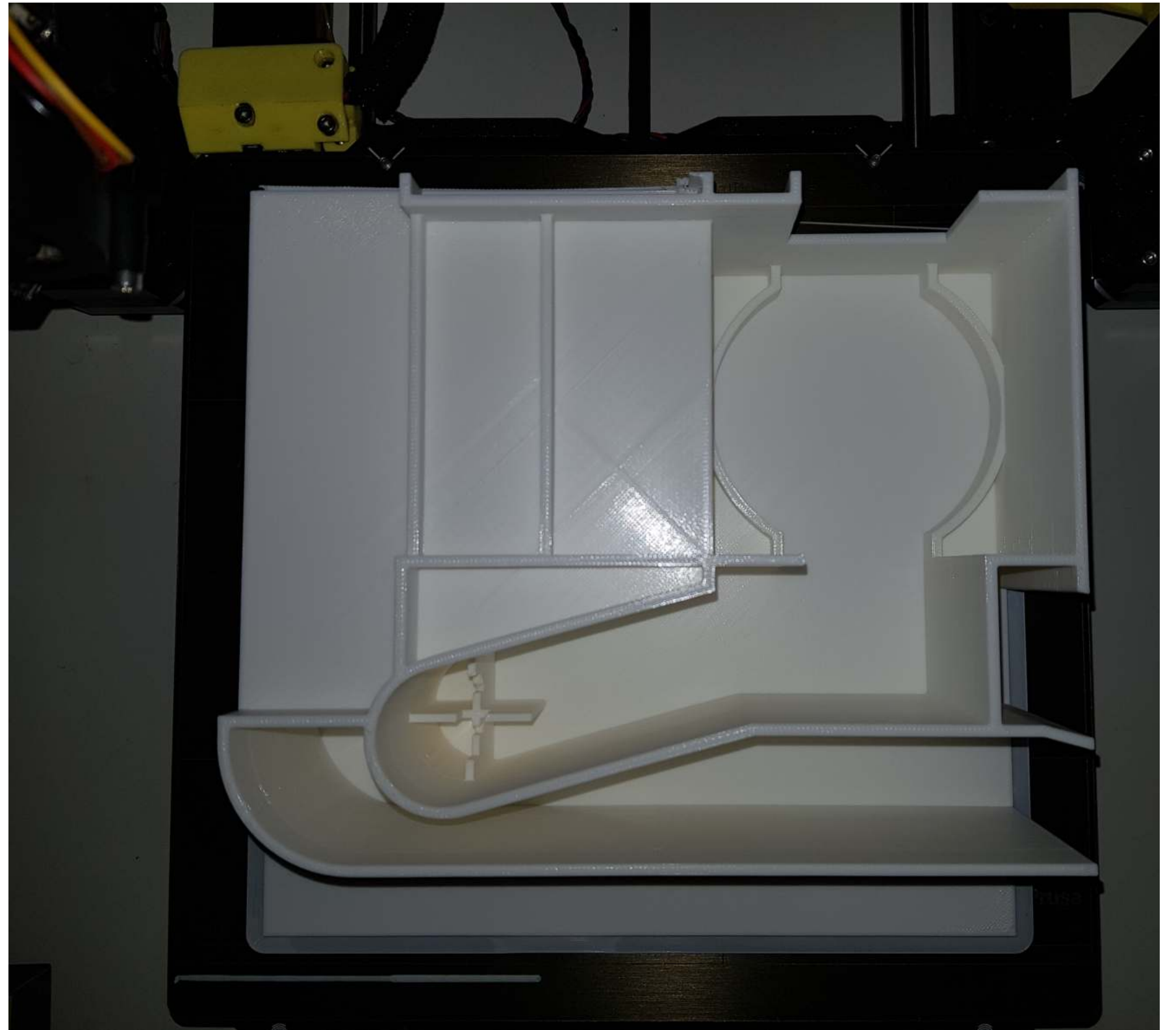
Faculty of Mechanical Engineering



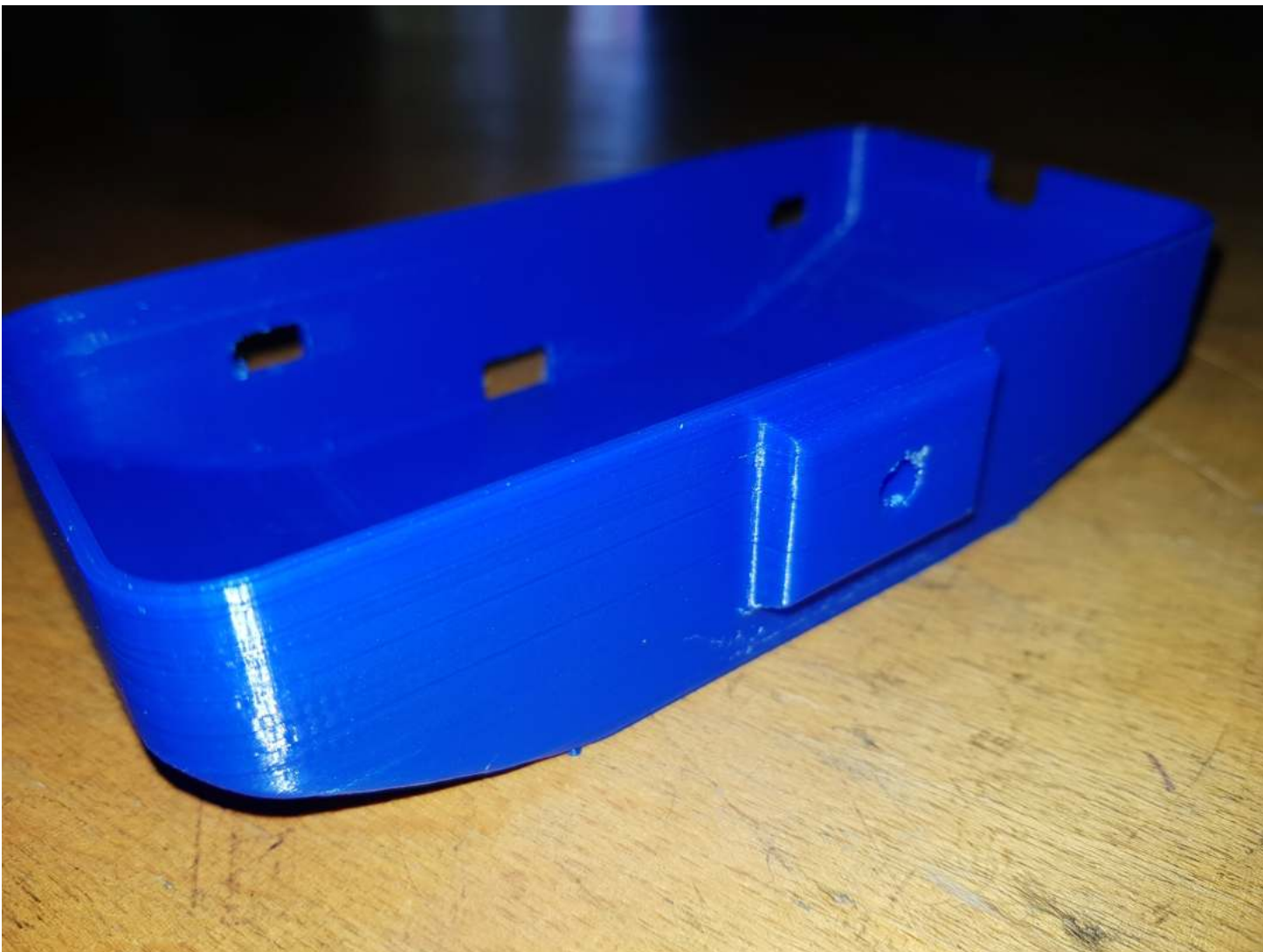
Faculty of Mechanical Engineering



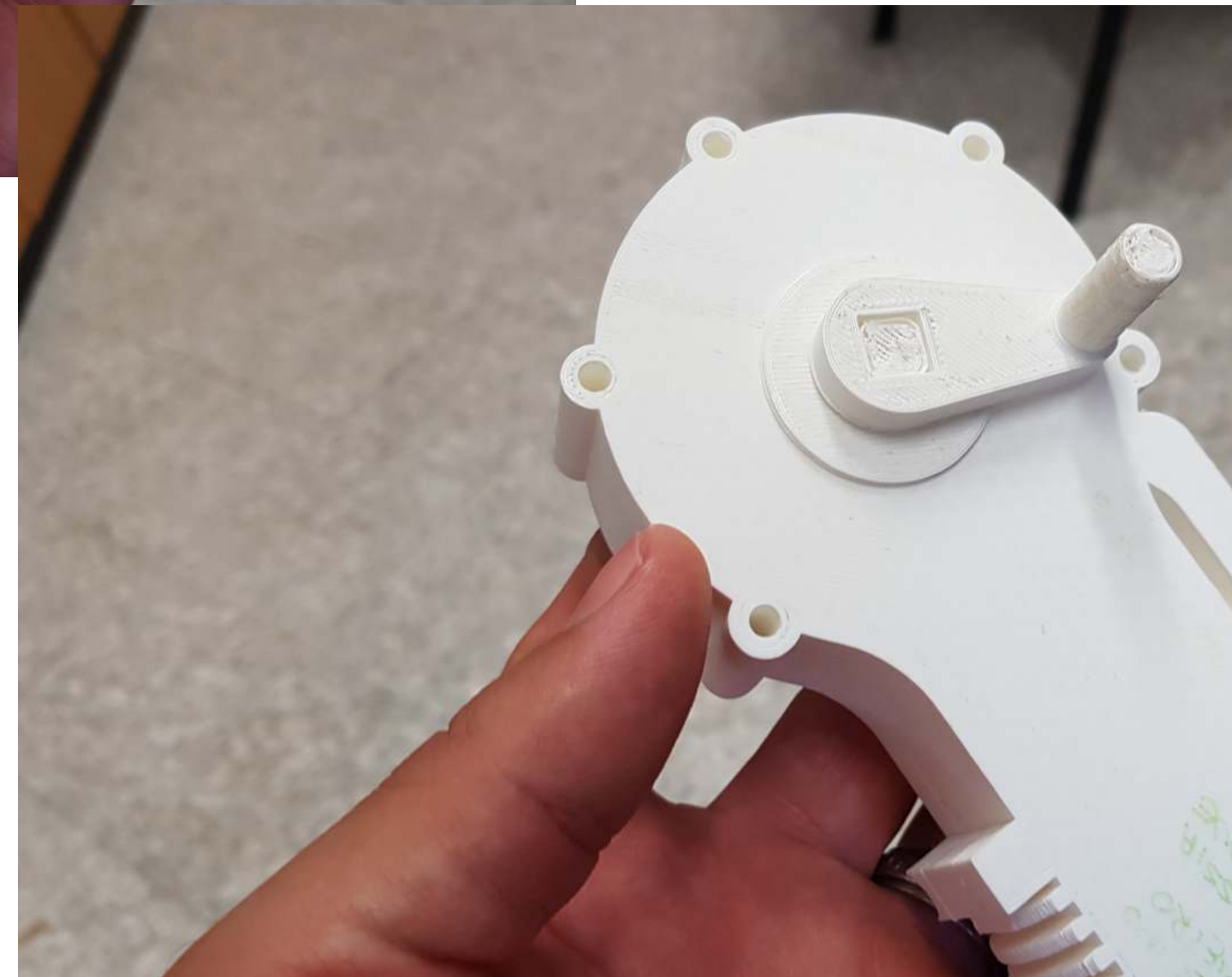
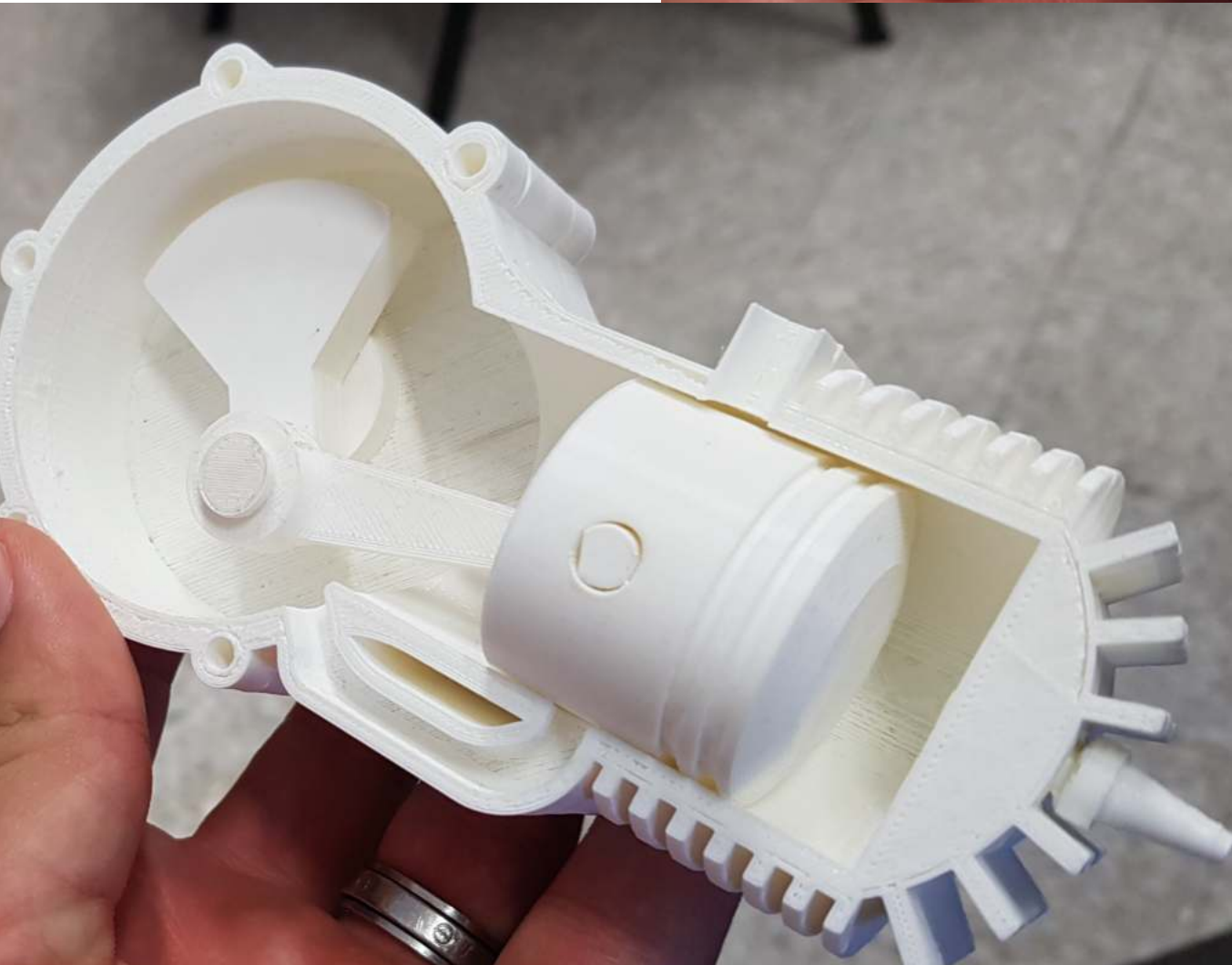
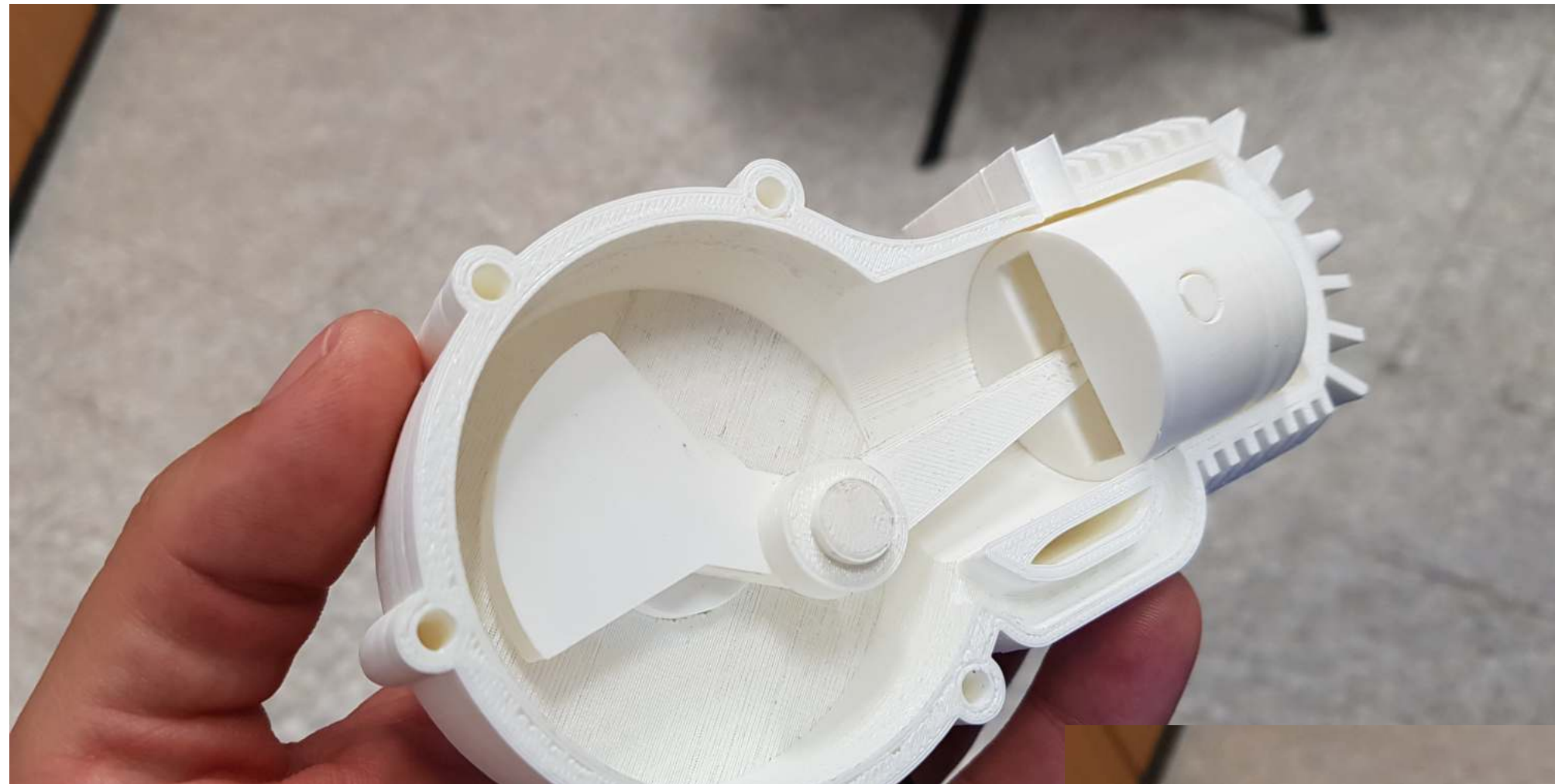
Faculty of Mechanical Engineering



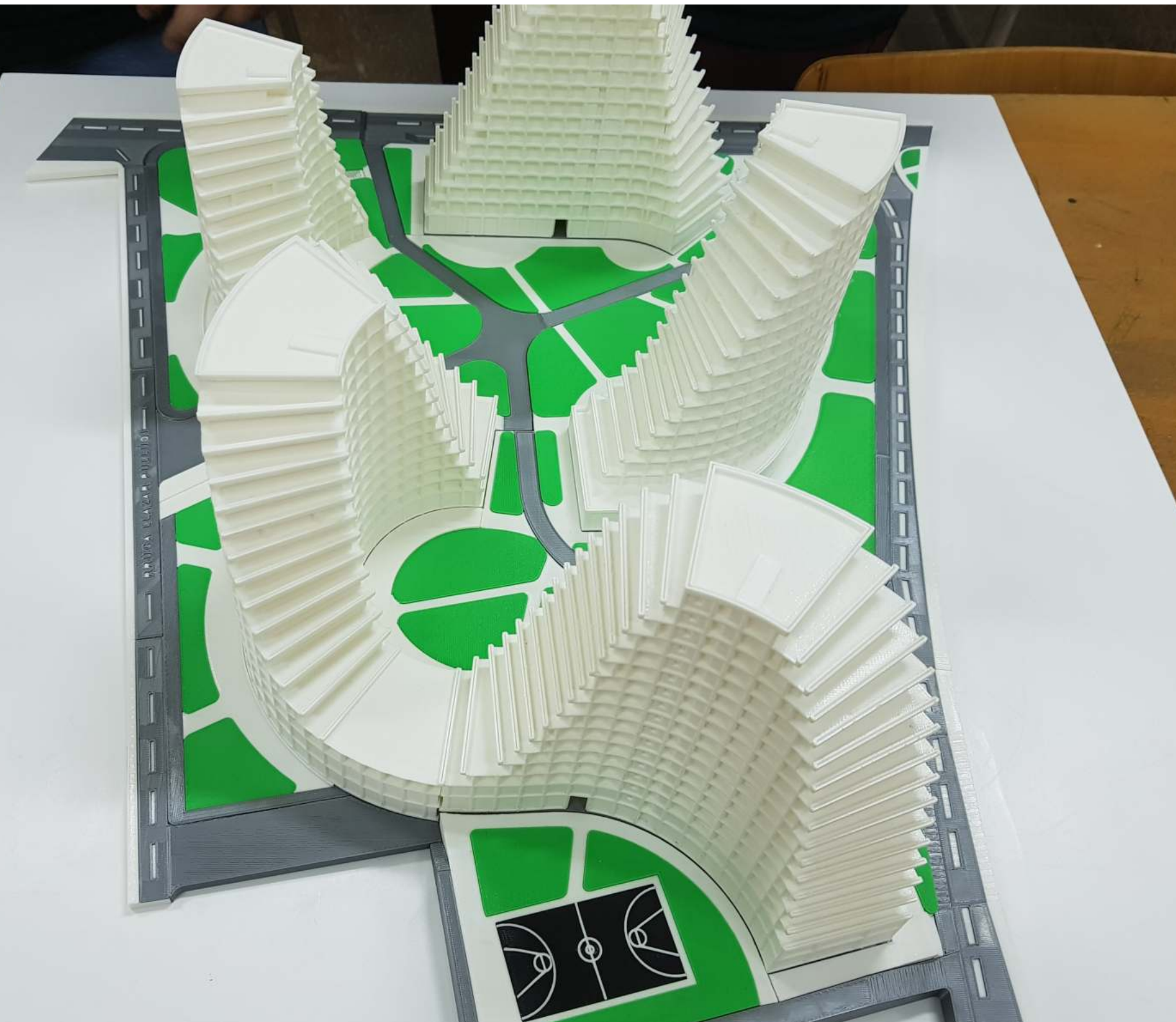
Faculty of Mechanical Engineering



Faculty of Mechanical Engineering



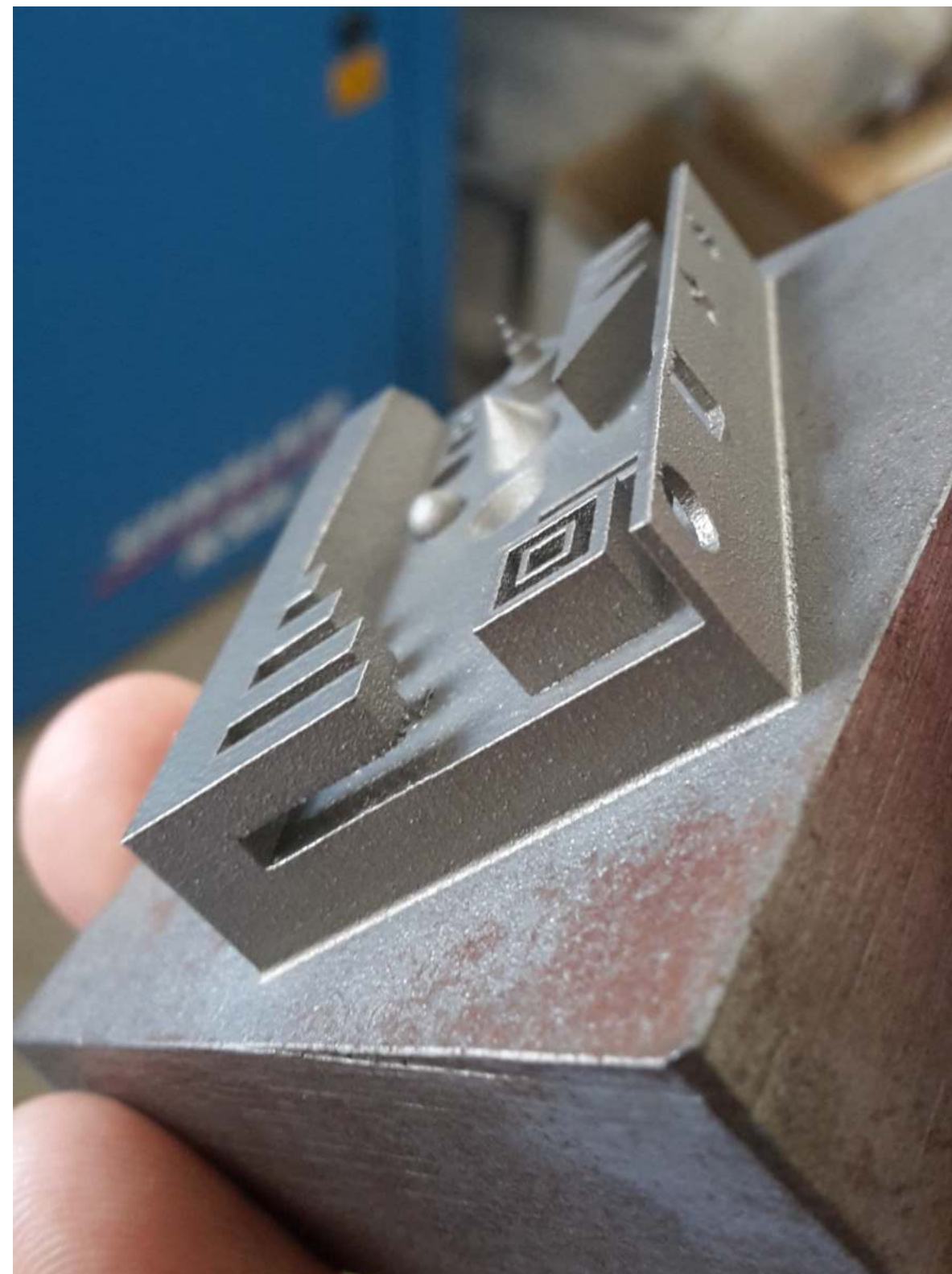
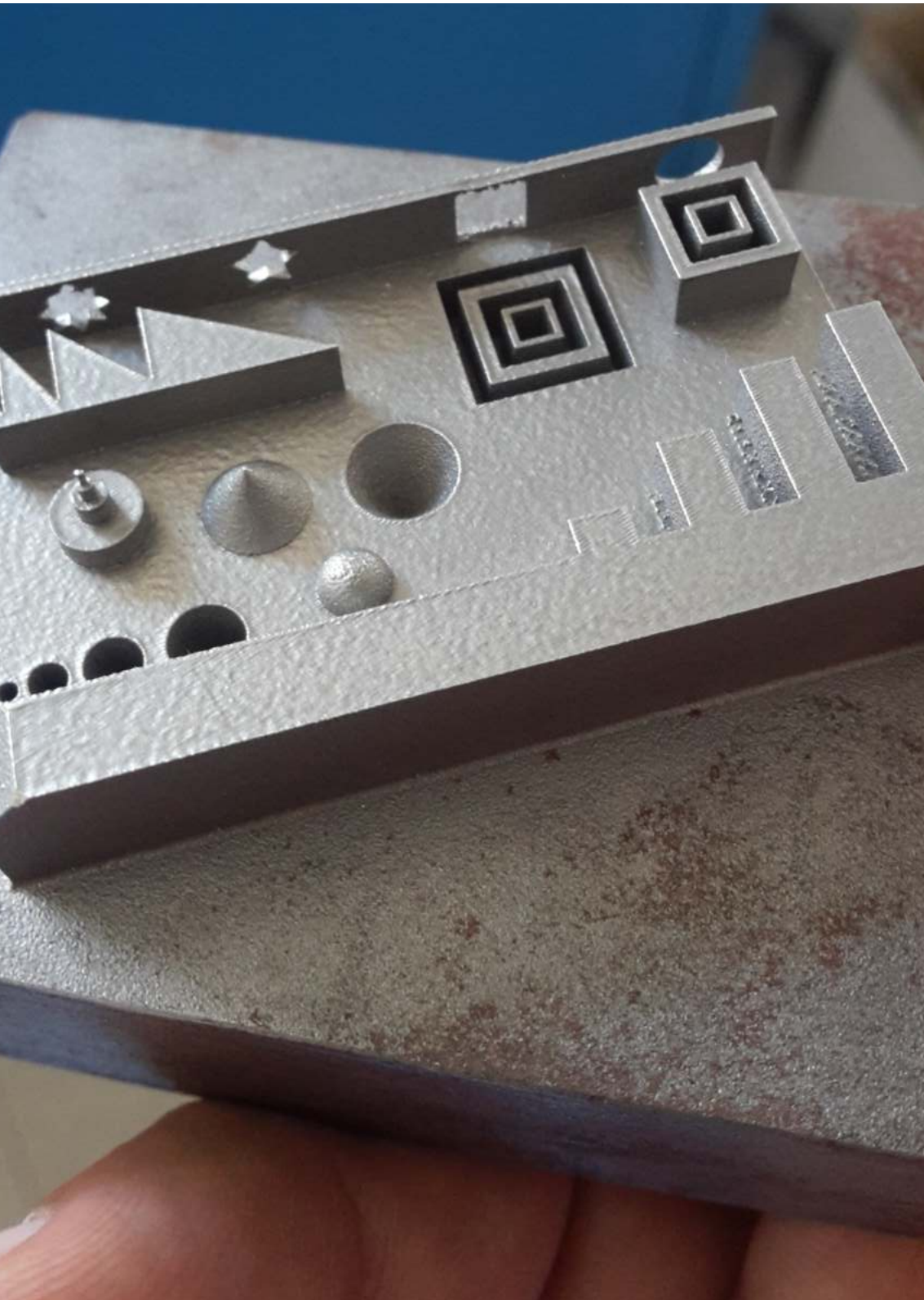
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Faculty of Mechanical Engineering



Internationalization and Collaborations with

- ❖ Politecnico di Bari (Italy),
- ❖ Università degli Studi di Perugia (Italy),
- ❖ Technik Universität Freiberg (Germany),
- ❖ Politecnico di Torino (Italy),
- ❖ Prishtina University (Kosovo),
- ❖ Thessaloniki University (Greece),
- ❖ Poitiers University (France),
- ❖ Siegen University (Germany),
- ❖ Athens Technical University (Greece),
- ❖ University of Zagreb.

Faculty of Mechanical Engineering

**Thank you for your
attention!**