

## **Terms and conditions**

1.1. All consultations and equipment usage require prior booking. Interested individuals must complete the appropriate registration form to gain access to the necessary equipment and receive professional assistance.

1.2. FabLab equipment can only be used on-site. Therefore, after booking a visit (usage of equipment), it is mandatory to be present at FabLab on the scheduled date and time.

1.3. Consultations can be conducted both online and in person.

1.4. If the user is not a student or employee of Ilia State University, they must first undergo a consultation to determine the required service. A separate registration form is designated for this purpose.

1.5. Ilia State University students and employees have a separate registration form.

1.6. When booking equipment services, it is mandatory to upload a prototype work file in the registration form.

1.7. Users must review the equipment descriptions in advance to familiarize themselves with the necessary materials and work file requirements.

## **2. Additional Conditions for Iliauni Students & Employees**

2.1. Laser cutter service must be booked at least 4 days in advance.

2.2. In case of Emergency situation, if a student needs to use the equipment in less than 4 days, the instructor must send an official request via email to [fablab@iliauni.edu.ge](mailto:fablab@iliauni.edu.ge).

2.3. Students have a semester-based service usage limit. They can book a service up to 3 times per semester. In the case of Emergency situation, students must contact [fablab@iliauni.edu.ge](mailto:fablab@iliauni.edu.ge) in advance.

2.4. Consultation bookings must be made at least 1 day in advance.

2.5. After completing the service, it is mandatory to submit a report. If the user fails to submit the report, their web account will be restricted.

2.6. Apart from consultations for the laser cutter, prior consultation is required for the use of any other equipment. Only after this consultation will users be able to book a visit for the equipment.

**Failure to comply with these terms and conditions may result in the restriction of access to FabLab Iliauni's services.**

## **Rules to Consider When Working with Equipment**

### **3.1. Laser Cutter:**

- **Maximum material size:** 70 x 50 cm
- **Supported materials and processing capabilities:**
  - Acrylic (cutting and engraving): 1 – 3 mm

- Plywood (cutting and engraving): 1 – 3 mm
- Leather and leather substitutes (cutting and engraving)
- Cardboard (cutting): 1 – 1.5 mm
- **File format:** PDF
- **File content requirements:**
  - Objects for cutting must be in **black** (R: 0, G: 0, B: 0)
  - Objects for engraving must be in **red** (R: 255, G: 0, B: 0)
  - Object dimensions must match real-life measurements and should not be scaled.

### 3.2. CNC Machine

**While working with the machine, it is important to consider:**

- **Working area:** 1100 x 1000 mm
- **Maximum working height:** 140 mm
- **Supported materials:** Plywood, wood, acrylic, MDF, PVC

The mentioned device can be used for prototyping; however, prior consultation is required.

### 3.3. Vacuum Forming Machine

- **Maximum material size:** 250 x 300 x 100 mm
- **Supported material:** Acrylic
- **Maximum material thickness:** 5 mm

The mentioned device can be used for prototyping; however, prior consultation is required.

### 3.4. 3D Printer

- **Maximum object dimensions:**
  - 300 x 300 x 300 mm
  - 220 x 220 x 250 mm
- **Maximum printing speed:** 600 mm/s
- **Layer thickness:** 0.1 - 0.35 mm
- **Supported materials:** PLA, ABS, TPU, PETG
- **Supported file formats:** STL, OBJ

The mentioned device can be used for prototyping; however, prior consultation is required.