Open FIESTA, IID Lab

**Module 1: 3D Printing**



A step-by-step tutorial

1. **Preparation**

**1.1 Software**

Download [Ultimaker Cura](https://ultimaker.com/software/ultimaker-cura), which is a **free** to download 3D slicer which prepares your 3D models quickly and easily.

Free design templates: <https://www.thingiverse.com/>

**1.2 Leveling the bed**

Make sure you remove the tiny plastics and also make sure it could stick on the layer.

1. **Printing** 
   1. **Printing with Memory Card**
2. Place the Memory card through a USB stick in your computer.
3. Slice your 3D model in Ultimaker Cura. Ensure that the print core and material configuration in Ultimaker Cura match the configuration on your Ultimaker 3 [Choose default]
4. Save the print file (.gcode) via the “Save to removable drive” button to the USB stick.
5. Eject the USB stick in Ultimaker Cura and remove it from your computer.
6. Place the USB stick in the Ultimaker 3.
7. Navigate to "Print" and select the file you want to print.
   1. **Printing with Cura Connect**

1. To start a print via Cura Connect, take the following steps:
2. Connect your Ultimaker 3 to the network (**3dprinter-27CB12**) via Wi-Fi
3. Enable Wi-Fi or Ethernet in the network menu.
4. In Ultimaker Cura go to Settings > Printers > Manage printers.
5. Click on the “Connect via network” button.
6. Select your Ultimaker from the list of printers that are shown and click “Connect”. This printer is now the Cura Connect host.
7. Slice your 3D model in Ultimaker Cura.
8. Press “Print over network” to start the print.

**Note:** Once the print is running you can monitor it by opening the “Monitor” tab at the top of the screen in Ultimaker Cura. This allows you to view the progress of your prints and to control your Ultimaker 3(‘s) from a distance.