

SCS186: Name: _____ ID: _____ Group: _____ Date: _____

Lab Introduction to 3D printing: 3D modeling, slicing & g-code.

Notes:

During this session, we will mainly work on the computer to prepare models for 3D printing. It would be great if each group could bring at least one additional laptop with the following software installed.

Some questions/research can be done before coming to the lab.

3D modeling software: FreeCAD, link: <https://www.freecad.org>

Slicing software: Ultimaker Cura, link: <https://ultimaker.com/software/ultimaker-cura/>

We will use the profile AnyCubic Kobra.

Take time to watch all the videos presented in this sheet.

Introduction

The development of 3D printing technology enables the fast prototyping of complex models. It revolutionized the industry by enabling a new way to produce complex shapes. Various types of printers exist (resin, extrusion, and powder-binding), but today, we will only focus on extrusion-based 3D printing technology.

The most known application of 3D printing is a home 3D printer such as the one we will use in this lab. It enables the creation of small objects made of various plastic materials.

Video: 3D printed Eiffel Tower time-lapse, link: https://youtu.be/FqQAjkZOBcY?si=OD-Fm_v8bhiUviAg

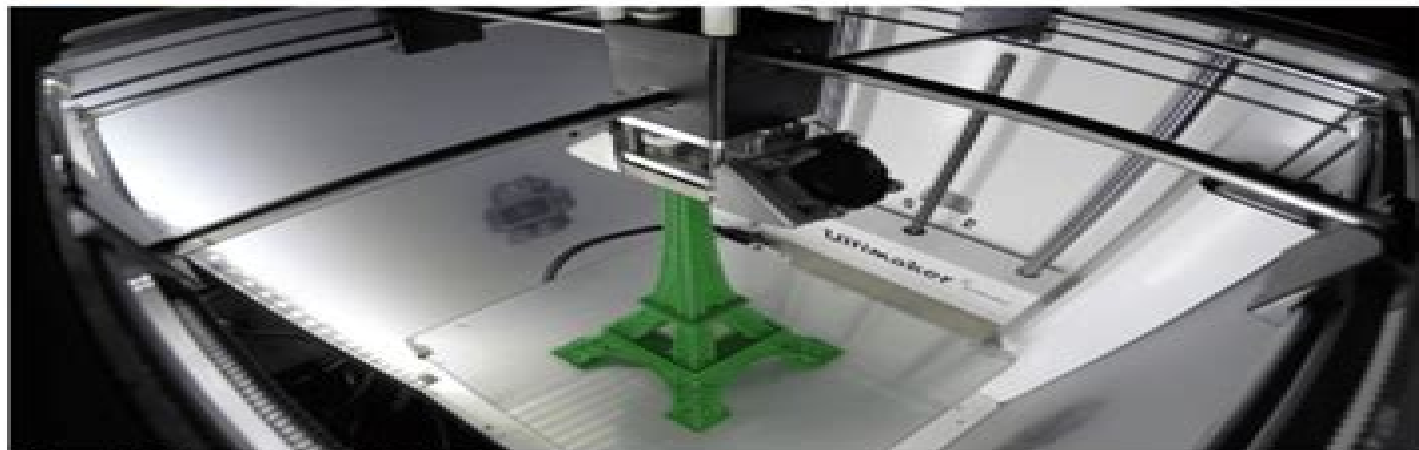


Figure 1: 3D printing of Eiffel Tower.

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