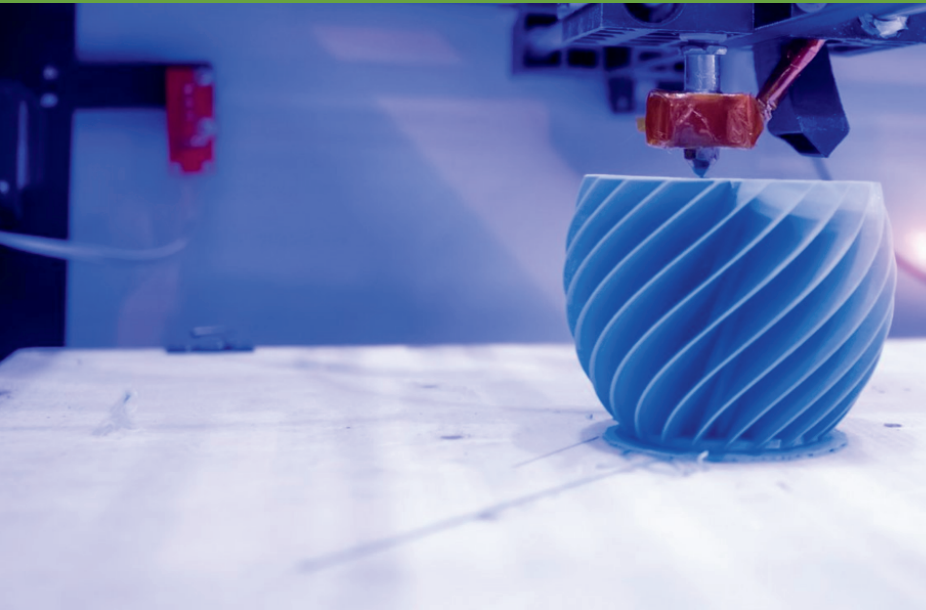


Getting started with



3D Printing

Introduction

In this course you will learn about 3D printing in a practical way. This means you must make a 3D print to pass the course.

It is required that you go through the resources in this document before showing up to the course, so that you have a grasp of what 3D printing is.

3D Printing Basics

What is it?

3D printing is a process by which parts are manufactured via stacking of layers upon layers of material.

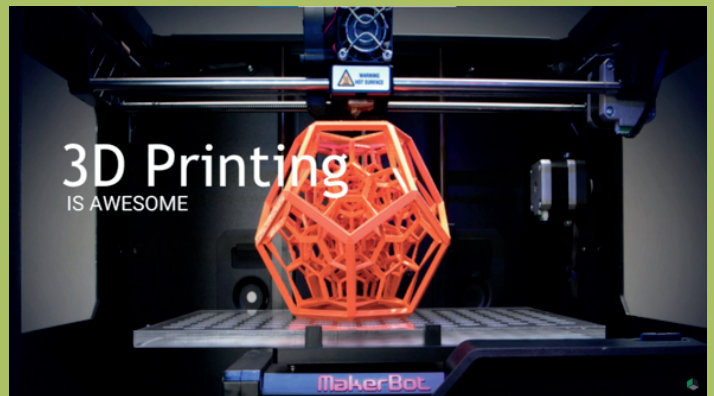
Today 3D printing is commonly associated with maker culture, hobbyist, desktop printers using low-cost materials such as the plastics PLA and PETG.

This 3D printing course covers the use of FDM (fused deposition modelling) printers. In this process a material is fed to the printer that is then heated to its melting point and is then deposited in layers to create the final object.

If you want to know more about 3D printing basics visit <https://www.hubs.com/guides/3d-printing/> - this is not required to take the course.

Beginner's Guide

Watch [the following video](#) covering the basics of 3D printing and the steps from computer model to print.



Cura and Bambu Studio Slicer

Our 3D Printers

In our MakerSpace we have five 3D printers. To use them you will need software that can convert your STL model into printer instruction for the 3D printers. A multitude of software capable of this task exists but we use two slicers depended on the choice of 3D printer: Cura for Ultimakers printers & Bambustudio for BambuLabs printers

Download Cura and Bambu Studio

Get the Cura installer for your operating system via the link [here](#)

Get the Bambu Studio installer for your operating system via the link [here](#)

Choose your printer

When setting up your slicer remember to tick off the printers we use in MakerSpace. See the printer names below

Printer 1: Ultimaker S5

Printer 2: Ultimaker S3

Printer 3: Ultimaker S5

Printer 4: Bambu Lab H2D

Printer 5: Bambu Lab H2D Pro

In case you need help with 3D-printing

Feel free to contact us! Otherwise Youtube is a great resource for 3D printing. There are tons of videos covering all areas of this awesome technology

Get a printable 3D Model

Create STL

Find a cool thing you want to print. There are many websites but the two we recommend exploring first are Thingiverse and MakerWorld.

Please make sure the print time is shorter than 2 hours.

Quick tip: CAD files can be scaled down in the slicer



Booking a Printer

We have booked the printers for you today but in the future you are expected to book them yourself.

When you want to use the printers, you must book them for the duration of your print.

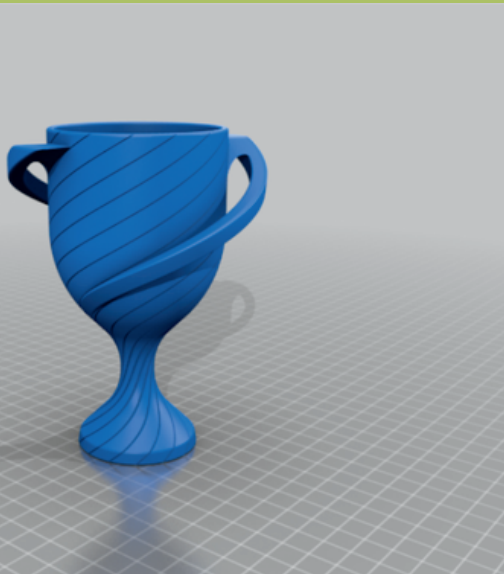
You can book the printers [here](#) or scan the QR codes lying around in MakerSpace

30 min. rule

If a printer is not printing 30 minutes into a booking the printer is regarded as free and it is allowed use the printer

Creating your own model

You are of course welcome to design something yourself and export as an STL file.



Happy Making!!!

Maker **Space**