

## Overview

Have you ever wanted to invent something, build something or prototype a product? With the **MakersAcademy Bundle** and 3D design tools and technologies like 3D printing, laser cutting and CNC machining, you can make your invention, your ideas and your products a reality

**Your Learning Path:** Your learning path consists of the following courses:

### Module 1: Introduction to Design for Manufacturing using Autodesk Fusion360

The strategy in this course is to start developing basic geometries using the Autodesk Fusion 360 software towards understanding the software interface and processes.

### Module 2: Fundamentals of CNC Milling and Laser Cutting

The term CNC stands for Computer Numerical Control. This is a system where, in this case, a machine utilizes 3-axis of operation to selectively remove material from a stock board such as timber.

### Module 3: Introduction to 3D Printing & Mould making

The focus of this module is centred around additive manufacturing. A term some would think is relatively new, however, the basic principle of what we know as additive manufacturing has been around since the dawn of time.

### Module 4: Product Presentation using Photography and Photoshop

This course will equip you with the photography techniques required to best showcase the product. You will learn how to prepare a lightbox for optimal lighting and how to set up the product to enhance its physical features.

### Additional Module: Product Visualization with Virtual Reality

The Virtual Reality for Google Cardboard is an Essentials level course that will be a general introduction to the concepts OF Virtual Reality and will cover everything aimed at the Architecture students, MDDOP and possibly Engineering students.