

UNITEN 3D MODELLING AND PRINTING

NAME: AKMAL HAKIM BIN AHMAD (GM098837)
COURSE: BACHELOR OF INFORMATION TECHNOLOGY
(GRAPHICS AND MULTIMEDIA) (HONS.)
SUPERVISOR: MR. MUTAHIR BIN MOHAMED ARIFF
EXAMINER: DR. NAZRITA BTE IBRAHIM



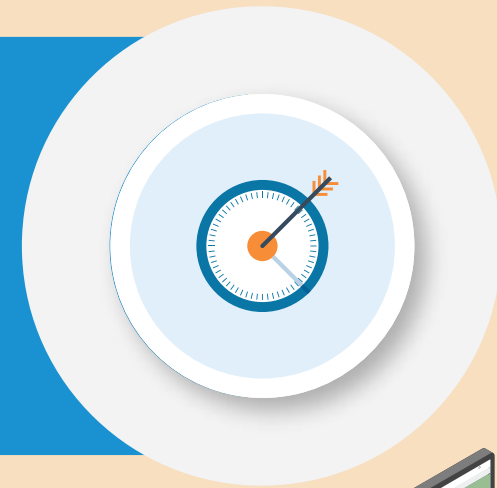
INTRODUCTION

3D printing is one of the most popular technology that are rapidly develop from time to time. Nowadays, user can have their own 3D printer for affordable price. For this project, using 3D printer is another step after modelling. One of the major point is, user can make fast rapid prototyping. Casting and molding method are not needed. Straight away model, slice, and finally print it. By using 3D printer, user creating objects that can be visualize rather than we see it on paper or electronic devices.



OBJECTIVES

- To assemble a working 3D-printer.
- To develop 3D models of the object(s) using 3D modelling software.
- To print out the 3D models of the object(s) using the 3D-printer.



SYSTEM SCOPE

- To develop and assemble a working 3D printer.
- Print the modelling by using Polylactic acid or polylactide (PLA) material.
- To model and print three (3) different subject matters such as the campus's landmark, buildings, and the iconic image of UNITEN.



USERS SCOPE

- STUDENTS AND LECTURERS**
Can use the 3D printer to print the model that are create from CAD software such as MAYA Autodesk.
- OTHER USERS**
Can view, hold and observe the model that have been printed



IMPLEMENTATION

Implementation start from selecting object that want to be print. From vector image into 3D model and finally print it out. This process are include with 3 type of software with various files type to print it out.



Illustrator



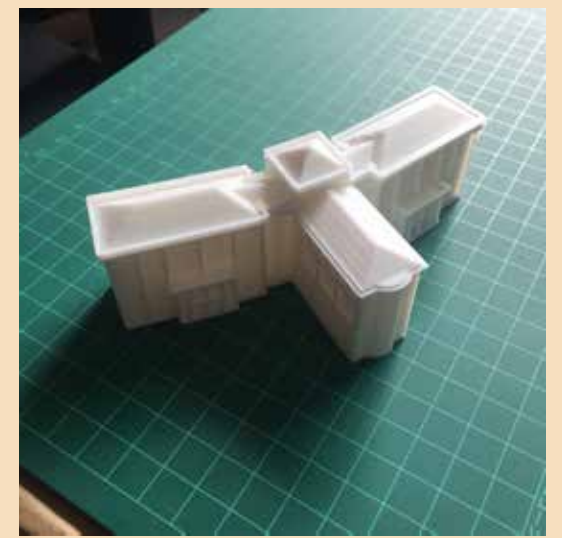
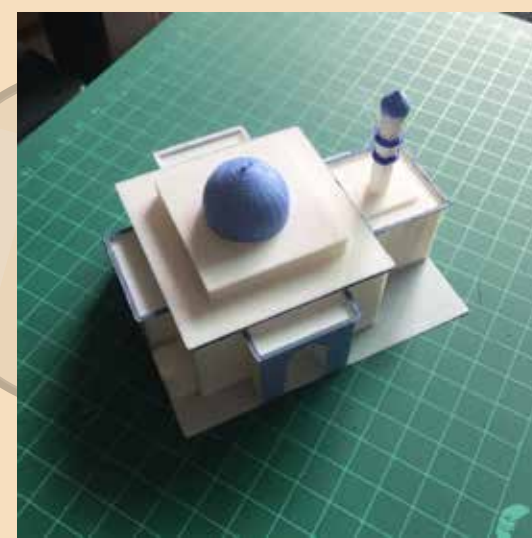
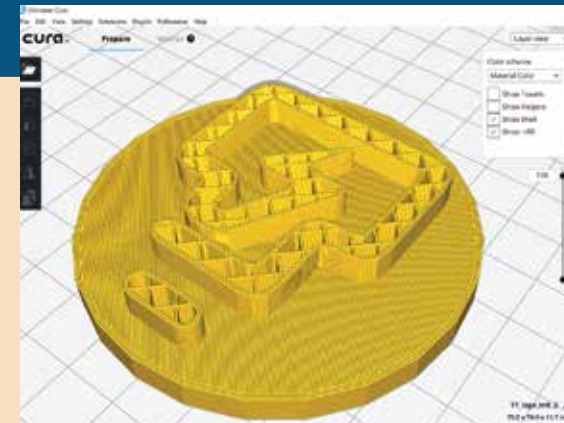
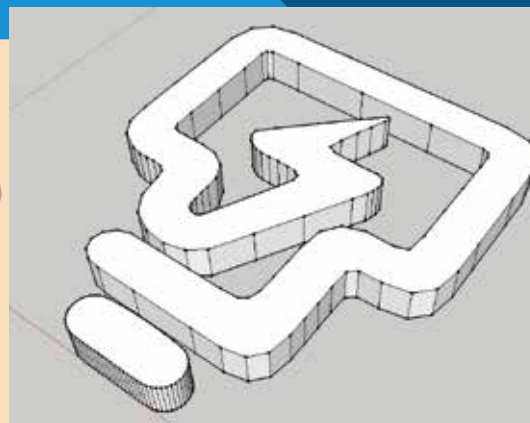
Sketchup



Cura



.png vector art .dwg .obj .stl .gcode



PROBLEM ENCOUNTERS

Can refer to Troubleshooting/configuration report



RECOMENDATION / FUTURE WORKS

- Jointventure with the UNITEN marketing making a merchandise for future.
- Creating a new sylibus for subject 3D Printing Technique as a basic expose due to Multimedia - courses.
- For TNB purpose - as a visualization tools for wiring, placement for residential area.

