

# **METU**

## **FACULTY OF ARCHITECTURE**

### **3D PRINTER MANUAL**

Our faculty provides two Stratasys Dimension 3d printers for the studies of the students and academic staff. Before preparing the files for 3d printer, all users should read the guide carefully and make reservation for the 3d printer at least two days in advance. During the peak times of the semester, the reservations should be made at least a week in advance.

#### **Files setup**

You can prepare your files for 3d printing process by using any CAD software as long as files are saved in STL format.

In order to prepare your drawings for 3d printer, you will need to organize your drawings.

- The maximum size of a part which SST1200es produces is 250mmx250mmx300mm and which BST768 produces is 200mmx200mmx300mm.
- All parts should be adjusted to the max part size of the machine and modeled as closed forms.
- The parts should be scaled to the actual size of the model (1 unit=1 mm).
- Extruded surfaces may not be processed properly by the 3D printer if they are not closed.
- If the interior of your part is emptied, the minimum wall/shell thickness should be determined as 1mm.
- The files should be correctly labeled in the following way.  
**Course code\_Name\_job number**  
**Arch402\_AyseKorkmaz\_5**
- Please bring the files for 3d printer on a CD, **the files on the flash memories will not be allowed.**

If you have any questions please contact the model making workshop staff.