

Third Laureate Research & Development

26th Khwarizmi International Award (KIA)



- **Project Title:** 3D printing
- **Executive:** Hamid Alikhani
- **Collaborator:** Saeed Reza Alikhani

● **Abstract:**

This 3D printing makes solid object with ABS plastic and high accuracy 34 micron by means of 3d software.

All data will be transferred via SD memory and the device will handle all processing steps during whole procedure without any need to be connected to PC Computer.

Consuming parts of this device is one filament from ABS plastic with diameter 3 mm.

At first, this filament will be melted in tank of device and then 3d model will be formed as layer by layer gradually.

Thanks to the device which it will make it possible to make any kind of complicated models.

This device has many applications in different areas as follows.

- **Robotic:** Making any objects with any different kinds of forms and dimensions.
- **Arciture:** Making any model.
- **Cultural heritage:** Making any sample from historical objects.
- **Chemistry:** Making laboratory equipment.
- **Industries:** Making industrial complicated parts.
- **Animation:** Making characters and location.
- **Statue:** Building memorial statue for country's national heroes and famous people.
- **Medical:** Making artificial limbs.

