

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

“Jnana Sangama”, Belagavi- 590 018



A PROJECT REPORT ON

“BRIEFCASE 3D PRINTER”

(Approved by KSCST, Govt. of Karnataka)

Submitted In partial fulfilment of the requirement for the award of degree of

BACHELOR OF ENGINEERING IN MECHANICAL ENGINEERING

By

Gaurab Premanjan Mohanty

1BH11ME007

Mohsin Khan. I

1BH11ME011

Muruges Aigali

1BH11ME012

Syed Salman Sageer

1BH11ME023

Under the guidance of

Mr. R Ravikumar

Asst. Prof.

Dept. of Mech. Engg.



BANGALORE TECHNOLOGICAL INSTITUTE

Off Sarjapur Road, Kodathi, Bangalore-560 035

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ABSTRACT

3D printing is a form of additive manufacturing technology where a three dimensional object is created by laying down successive layers of material. It is also known as rapid prototyping, is a mechanized method whereby 3D objects are quickly made on a reasonably sized machine connected to a computer containing blueprints for the object. The 3D printing concept of custom manufacturing is exciting to nearly everyone. This revolutionary method for creating 3D models with the use of inkjet technology saves time and cost by eliminating the need to design; print and glue together separate model parts. Now, you can create a complete model in a single process using 3D printing. The basic principles include materials cartridges, flexibility of output, and translation of code into a visible pattern.

3D Printers are machines that produce physical 3D models from digital data by printing layer by layer. It can make physical models of objects either designed with a CAD program or scanned with a 3D Scanner. It is used in a variety of industries including jewelry, footwear, industrial design, architecture, engineering and construction, automotive, aerospace, dental and medical industries, education and consumer products.