

What do you know about additive mfg? Discuss its application

India has embraced the Industry 4.0 into its development agenda. - In this additive manufacturing or 3D printing plays a key role.

Additive manufacturing

It is the layering of materials, such as plastic, resins, etc based on a computer model to produce a product.

3D design $\xrightarrow{\text{upload}}$ 3D printer $\xrightarrow{\text{3D printing}}$ product

It is advantageous than the subtractive manufacturing as it reduces the wastage and produces a near perfect product.

The technology has myriad of advantages to offer.

Applications

Aerospace : Components such as aero
dynamic parts for satellites and jet engine
components can be produced.

Healthcare : Personalised implants,
prosthetics and dental products are being
made.

Construction : Affordable homes are
being constructed. The recent 3D printed
rest office in Bangalore was opened.

Jewellery : Unique designs and
traditional revival of jewellery is
happening now.

Additive manufacturing has much
more to offer. The National Strategy
for additive manufacturing has been
launched to reap much of the
benefits.