

A REPORT ON

“Two Days Skill Development Workshop on Solid Works 3D CAD software & Digitalization of Manufacturing using 3D Printer”

As we enter a truly digital age, manufacturers are increasingly looking to technology to help in ways they might never have imagined before. While technology can obviously have an incredibly positive effect across a business, it's important that manufacturers don't bow to industry peer pressure and adopt something just for the sake of it. Not only can the digitisation of manufacturing provide manufacturers with better internal processes and enable greater efficiency and thereby improved profitability, but it can also enable them to attract more employees. This was explained very well by Mr. Rudresh Vyas.

Solid Works 3D was explained by Mr Tapan Swami the detailed summary is that it Provides simulation tools for testing ideas in a virtual environment for gaining insight into potential performance and durability, handy for designers and engineers. Also it will capture non-electronic data and complex electronic data, such as 3D shapes, when needed.

3D printing or additive manufacturing is a process of making three-dimensional solid objects from a digital file. The creation of a 3D-printed object is achieved using additive processes. In an additive process, an object is created by laying down successive layers of material until the entire object is created. Each of these layers can be seen as a thinly sliced horizontal cross-section of the eventual object. It starts with making a virtual design of the object that is to be created. This virtual design is made in a CAD (Computer Aided Design) file using a 3D-modeling program (for the creation of a totally new object) or with the use of a 3D scanner (to copy an existing object). A 3D scanner makes a 3D digital copy of an object. This was explained by Mr Mayur.

Glimpses of this knowledgeable workshop are below:





PREPARED BY:
MUSHRAF SYED
HOD - MECHANICAL

