GOVERNMENT ENGINNERING COLLEGE, VALSAD

MECHANICAL ENGINNERING DEPARTMENT

A Report
Of
Workshop
on

3D Printing Technology

By

Dr Yogi Gandhi,

Mr Ashish Patel

From

US Institute of 3D Printing Technology

Organized

Under RUSA Scheme

Component 9 Equity Initiative

Event Details

- **Name of Workshop:** 3D printing Technology
- **Name of the speaker:** Dr Yogi Gandhi, Mr Ashish Patel- US Institute of 3D Printing Technology
- **Date of Seminar:**27 & 28-02-2020
- **Number of Participants:** 162 students + 35 Faculties
- **Objectives of Seminar:**
  - To understand the concept & importance of 3D printing Technology future.
- **Outcome of Seminar:**

  Students & Faculties will be able to;
  - Understand types of 3D Printing technology available in market and how it works.
  - Understand the range of products that can be printed on 3D printers and type of Material used for it.
- **Event description:**

Mechanical Engineering department of Government Engineering College Valsad has organized Two day workshop for mechanical engineering students & Faculties of institute on "3D Printing Technology". The aim of the workshop is to make students aware about concept & importance of 3D printing Technology. The workshop was also attended by the staff and students of Government Polytechnic college Valsad.

The workshop started with welcoming guest by respected principal sir Dr V S Purani and Head of the Department Prof H V Vaidya and few encouraging words about the current scenario in industry from principal sir. The workshop was divided in two sessions, in first session Dr Yogi Gandhi sir has presented and explained to students about backgroung of how 3D printing technology evolved. They also explained about the various types of 3D printing technology available in market ad hoe they differ in printing object. Dr Yogi Gandhi sir has also shown the recent trends or developments in the world regarding 3D printing Technology. Sir has also

explained them about how 3D priming technology is used in range of areas like manufacturing, Health care & Medicines, Educatio,. Fashion, construction industry. How 3D printing technology is changing the job creation in the world.

Sir has also explained to students Regardless of the specific application, 3D printers offer rapid turnaround times when it comes to taking a digital concept, and placing the physical results of that concept into a user's hand. As the technology surrounding it improves, 3D printers will become increasingly versatile. They'll be used for an ever growing number of tasks, in a manner similar to the last two decades of digital expansion via personal computers. Imagine a third world village printing vital medical equipment on demand. Aid workers never being without the specific supplies they need, a result of carrying portable 3D printers with them into combat zones and disaster areas. Imagine hospitals being able to print organs on demand instead of waiting for a donor. 3D printers have virtually limitless potential as the technology driving them improves. They also offer typical consumers endless opportunity for product customization. They are capable of producing the type of customization that's unattainable through mass manufacturing. Imagine never needing to break in a new pair of shoes again. You also won't have to worry about selecting the shoe size that's the closest fit – instead, you'll be able to scan your feet and design a shoe that fits them perfectly.

In the Second session Mr Ashish Patel USI3DT has demonstrated on 3D printer which they have brought by 3D printing a small component in printer. While demonstration was going on simultaneously sir has also explained about type of raw material required for 3D printing. Also sir has explained that depending upon the raw material how the product quality varies and also cost of the component. The same session on second day is repeated for the faculties of Government Engineering College Valsad & Government Polytechnic college of Valsad.

❖Glimpses of Workshop:

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Government Engineering College, Valsad
Behind Sanskar Kendra, Tithal Road, Valsad-396 001
RUSA COMPONENT 9
EQUITY INITIATIVE
3D Printing Technology
CERTIFICATION COURSE
Highlights
• Domestic Internship with Rs 15000-Rs 60000 remuneration a month
• Overseas Placement Opportunities in 3D Printing Industries with Annual perk ranging $40,000 - $1,60,000
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