



ADHI

COLLEGE OF ENGINEERING & TECHNOLOGY

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Report on

“One day workshop on 3D printing of concrete”

One day workshop on 3D printing of concrete was conducted by SA solution at IIT Madras Research park on 24-02-2018 from 9.30 am to 3.30 pm. It was a very good experience in 3D printing and we gained so much of knowledge in that topic.

The following are the staffs and students participated.

1. Mr.L Sathish, AP/Civil
2. Mr. S Aravind, AP/Civil
3. Ms. Sowmiya, IV Year/Civil
4. Mr. K Loganathan, III Year/Civil
5. Mr. B Karthick, III year/Civil
6. Ms. T S Vaishnavi, II Year/ Civil
7. Mr. Ramesh kumar badal, II Year/Civil
8. Mr. Prasanth E, II Year/Civil
9. Ms. Sudha G, II Year/Civil
10. Ms. Yuvasri B, II Year/Civil
11. Ms. Saranya A, II Year/Civil

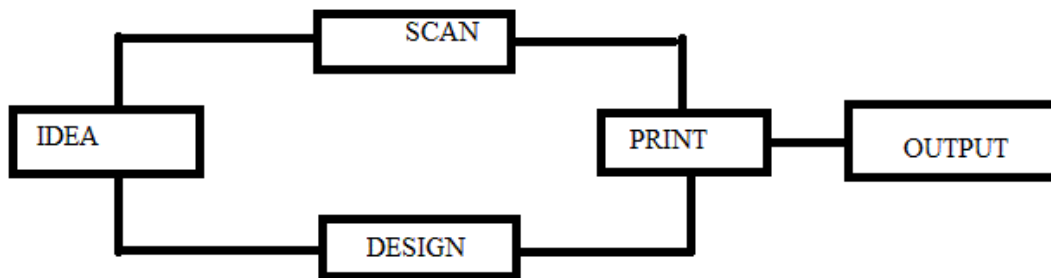
Mrs. Vidhya srikanth, Chief executive officer, SA 3D Solutions, addressed the gatherings and started the presentation about the 3D printing. She explained about the importance, applications, types of 3D printers, types of filaments etc and the details are given below:

Some of the points we learnt from there is given here:

- Information on 3D printing that is how 3D printing is trending because of pattern right for 3D printing is over. Hence we are using everywhere.

- Now 3D printing is in 9th place in the industrial application which is given by Mechanse Global Industry.
- In India 3D printing is first implemented at Gujarat.
- At present 5D printing is trending on U.S.A which is used only for space purpose.
- The first 3D printed office is constructed in Dubai which is done within 17 days and the inauguration in done on May-21-2016.

Workflow of 3D printing:



The applications of 3D printing is given as follows:

- Architecture
- Automotive/ Engineering
- Aerospace
- Education
- Medical
- Jewelry
- Fashion

The softwares used for 3D printing are:

- Fusion
- Cura
- Simplify 3D
- Flash Forge

The filaments used for 3D printing are:

- Polylactic Acid
- Acrylonitrile Butadiene Styrene
- Wood
- Thermoplastic

- Polyvinyl Alcohol
- Metal

Types of 3D printers:

- Fused deposition modeling (FDM)
- Fused filament fabrication (FFF)
- Stereolithography (SLA)
- Z Crop printing

The scanner used in 3D printing is:

- Skanect

PHOTO GALLERY



Students at IITM research park



Students learning Fusion software



Photo with Mrs. Vidhya Srikanth



Ms. Saranya II/Civil receiving certificate